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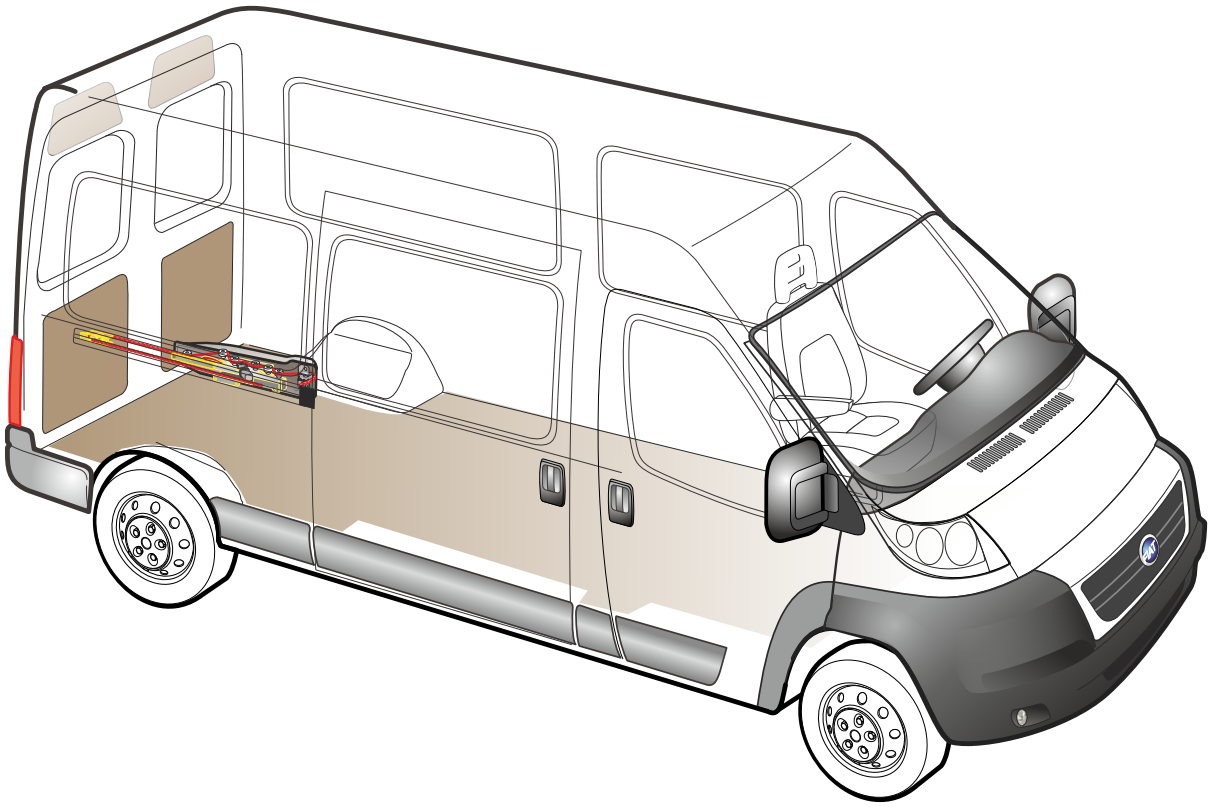
FIAT Ducato L2:L3:L4
PEUGEOT Boxer
CITROEN Jumper / Relay



ASD

LHD Automatic Sliding Door

PN: 015-0002-DL

Recommendation

Please print this instruction manual in color

01.04.15

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CITROEN Jumper / Relay
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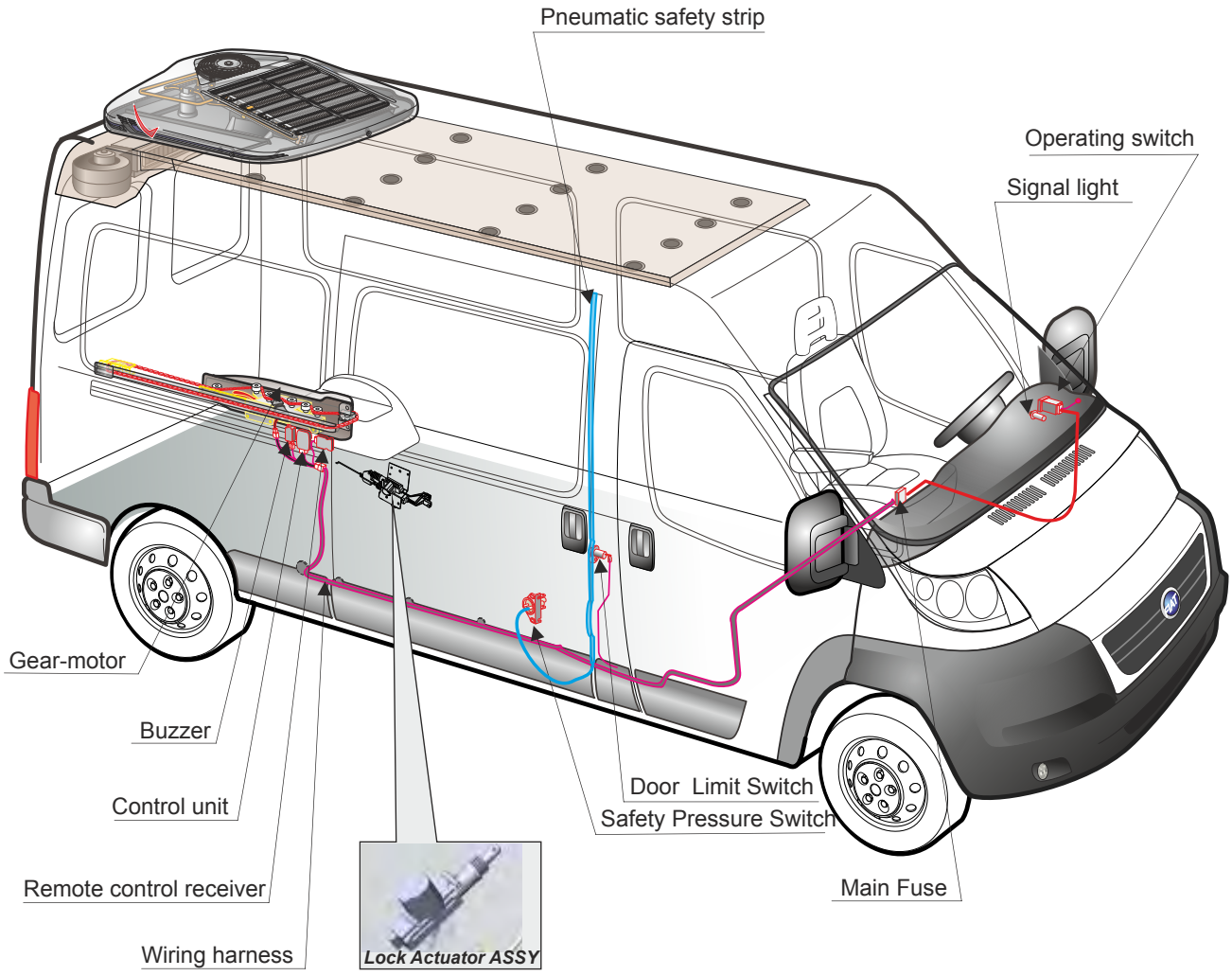

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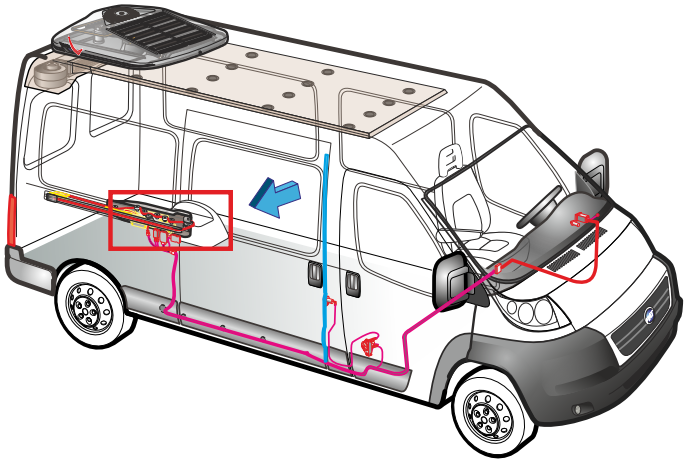

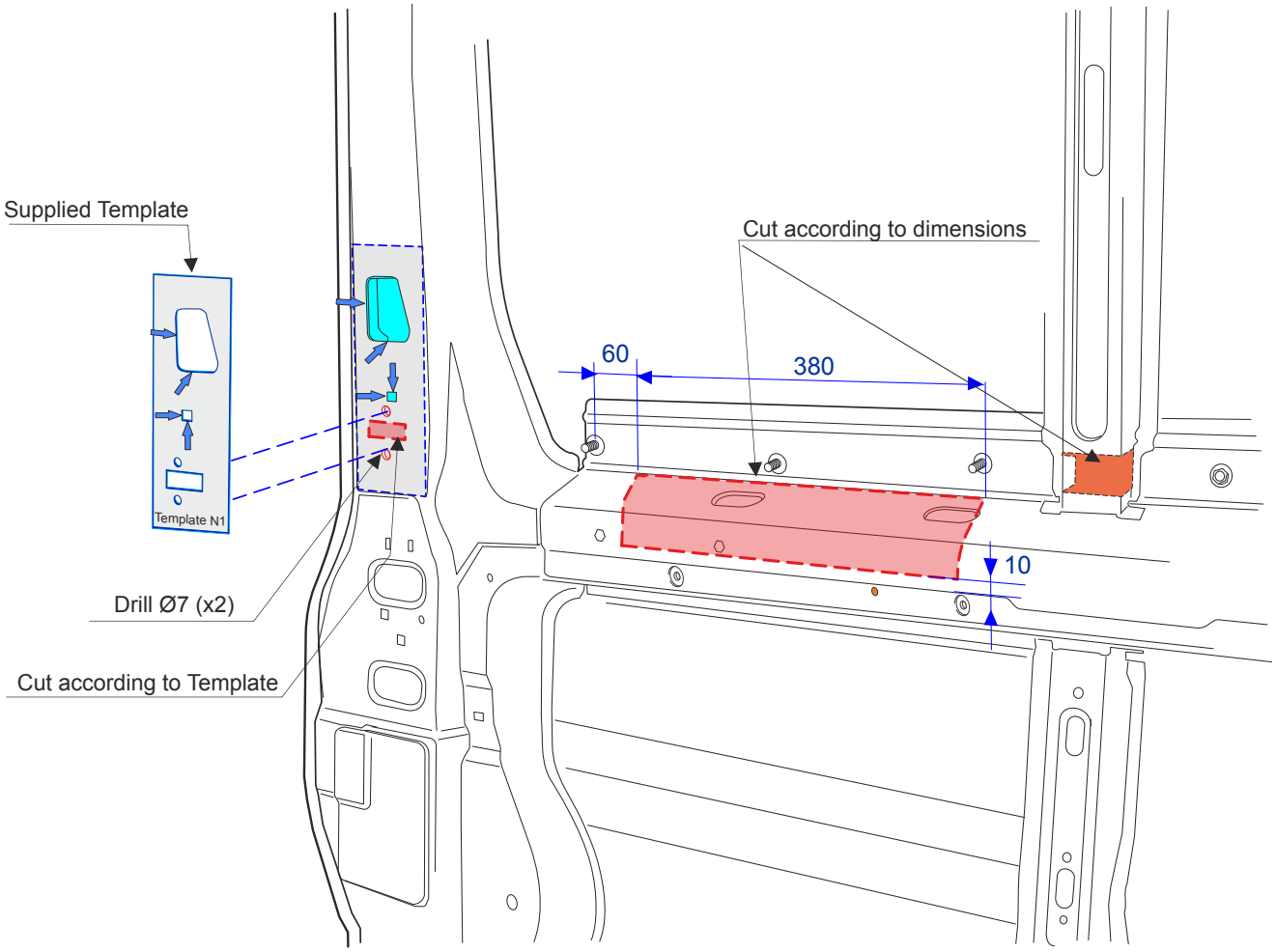

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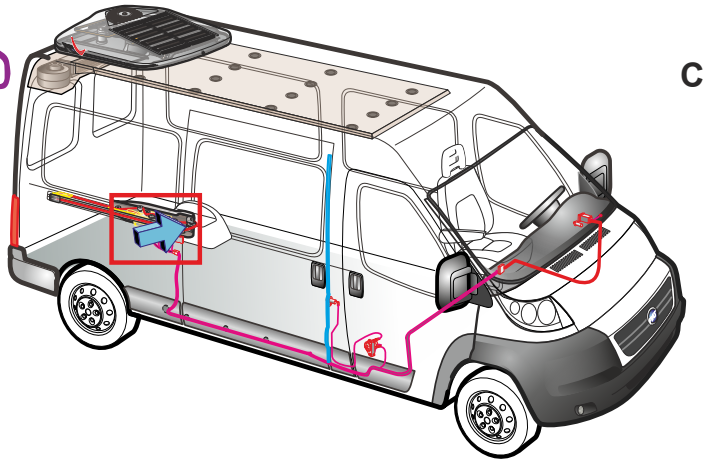
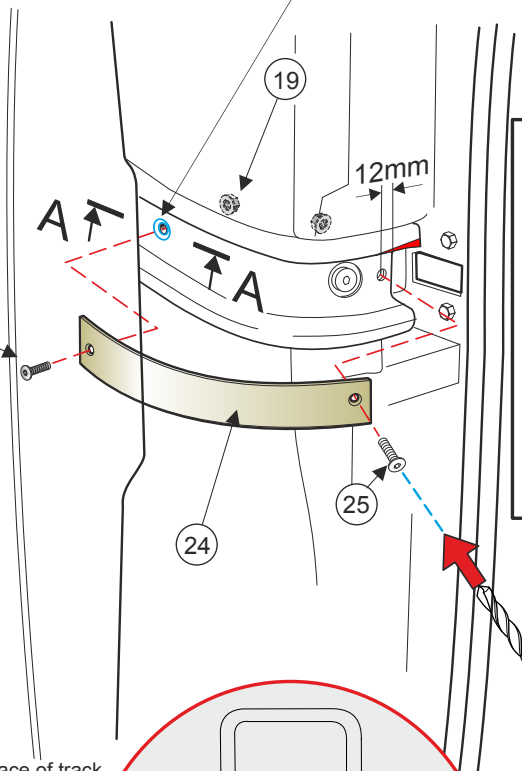
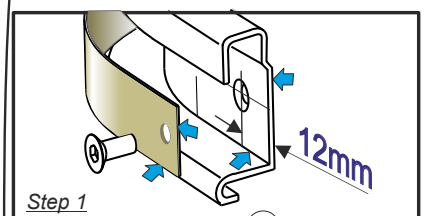
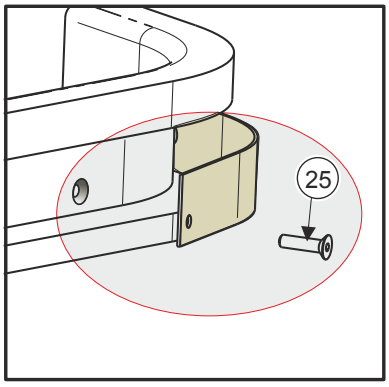


Drill Ø4 according to detail (24)



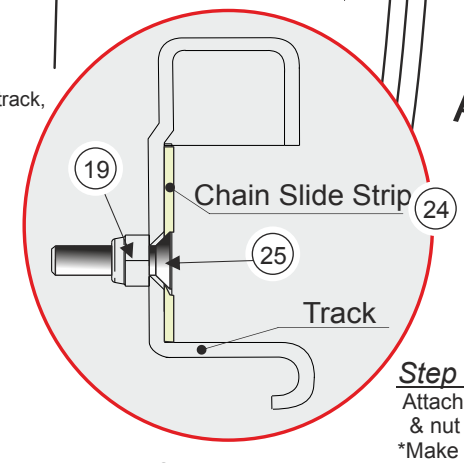


Step 1
Align chain slide strip 24 to the right and bottom of the track.
Step 2
Mark & drill thru the right strip hole 4 mm.
Step 3
Attach the right strip using screw M4x20 & nut M4

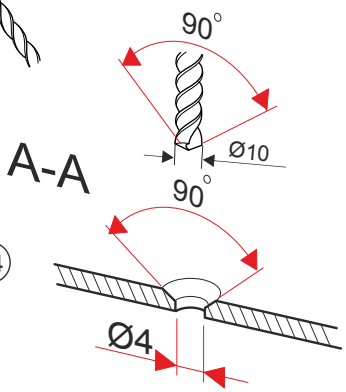


Step 4
Tightly pressed chain slide strip to the surface of track, Mark & drill thru the left strip hole 4 mm.

Step 5
Attach the left strip using screw M4x20 & nut M4



Section A-A



Step 6
Attach the left strip using screw M4x20 & nut M4 .
*Make sure the screw is entirely inside

25	Socket flat head screw M4x20	- 2
19	Lock nut M4	- 2

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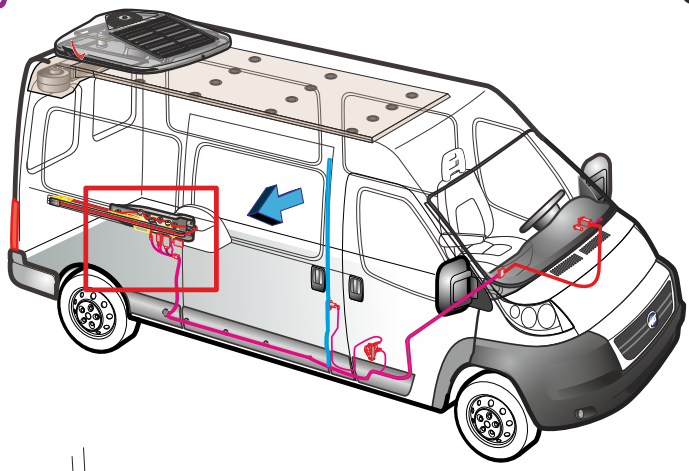

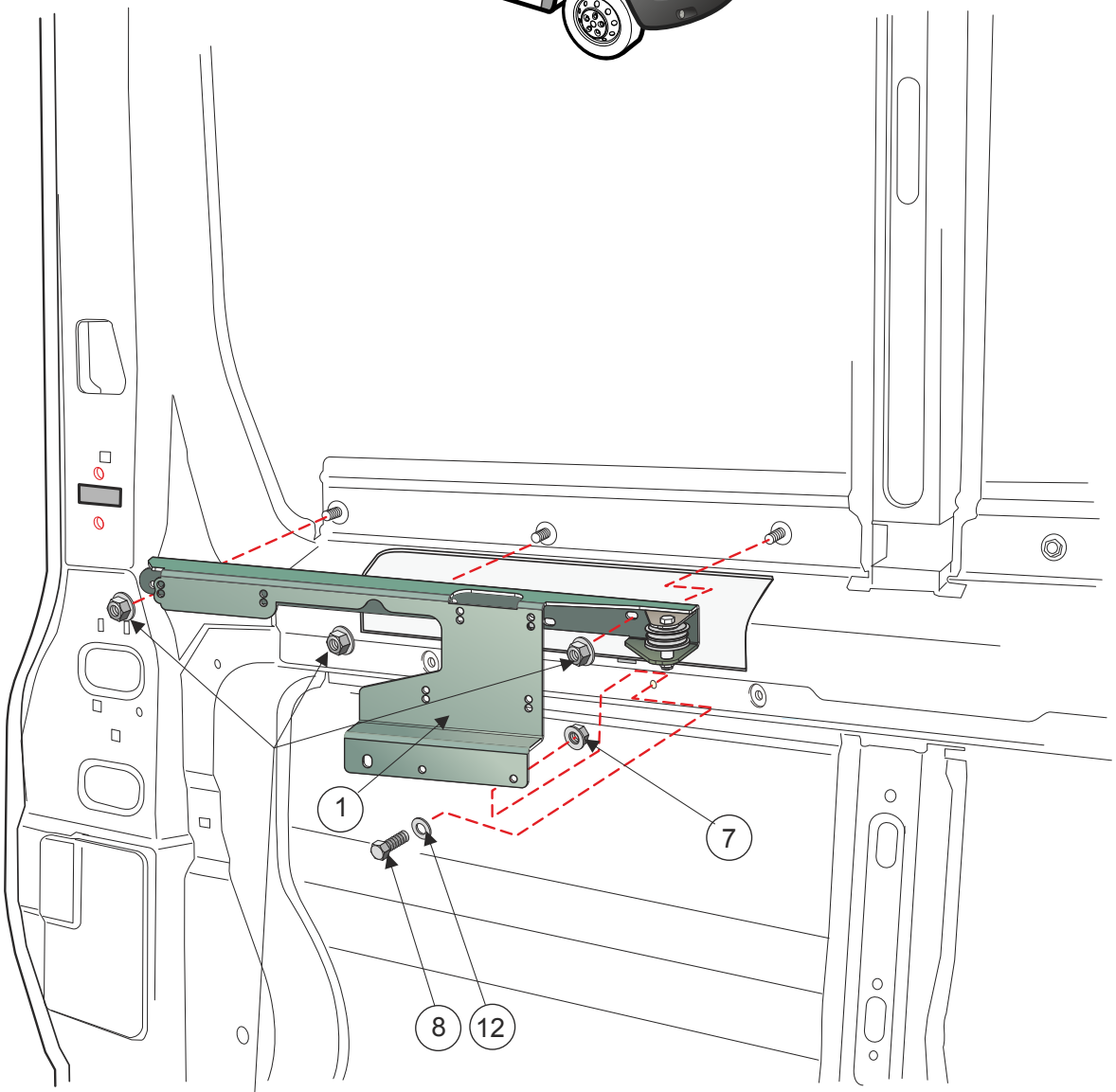

8	Hex head screw M6x16	- 1
7	Flange nut M6	- 1
12	Washer 6	- 1

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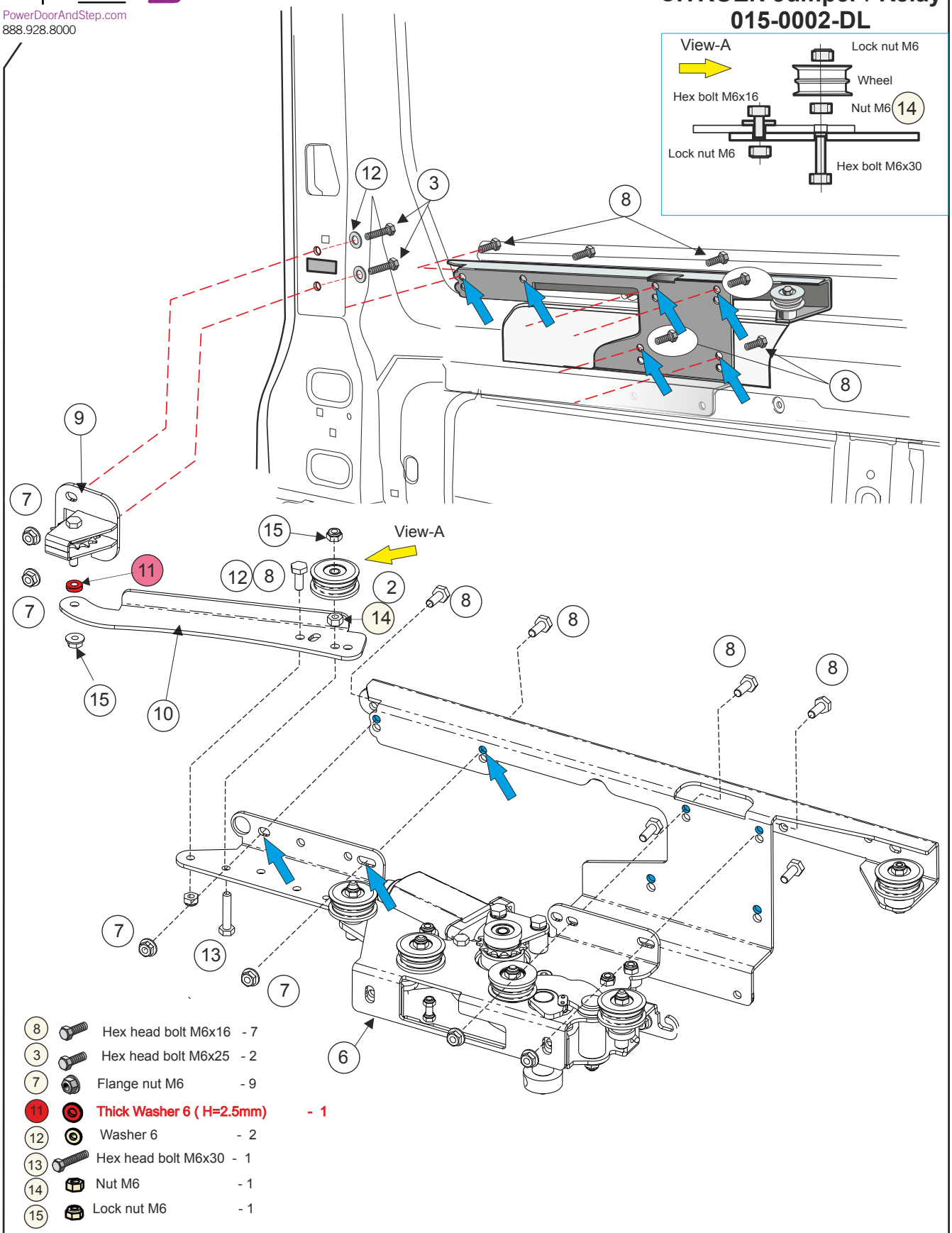

8	Hex head bolt M6x16	- 7	
3	Hex head bolt M6x25	- 2	
7	Flange nut M6	- 9	
11	Thick Washer 6 (H=2.5mm)	- 1	
12	Washer 6	- 2	
13	Hex head bolt M6x30	- 1	
14	Nut M6	- 1	
15	Lock nut M6	- 1	

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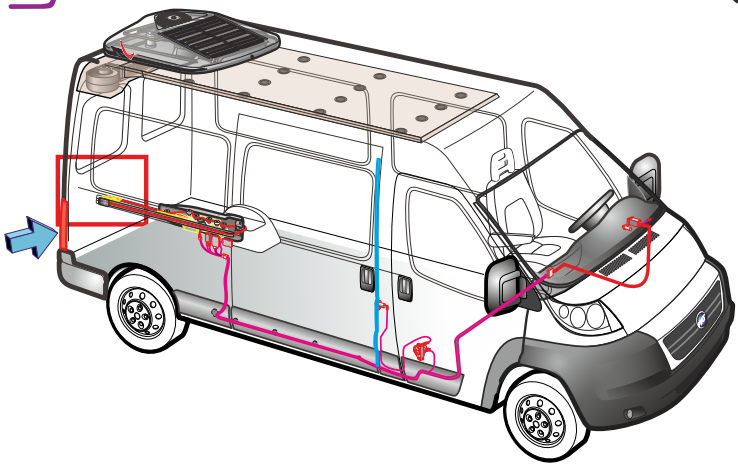

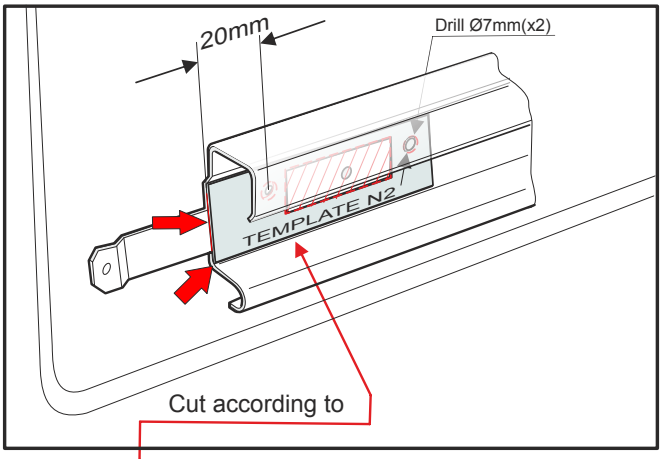

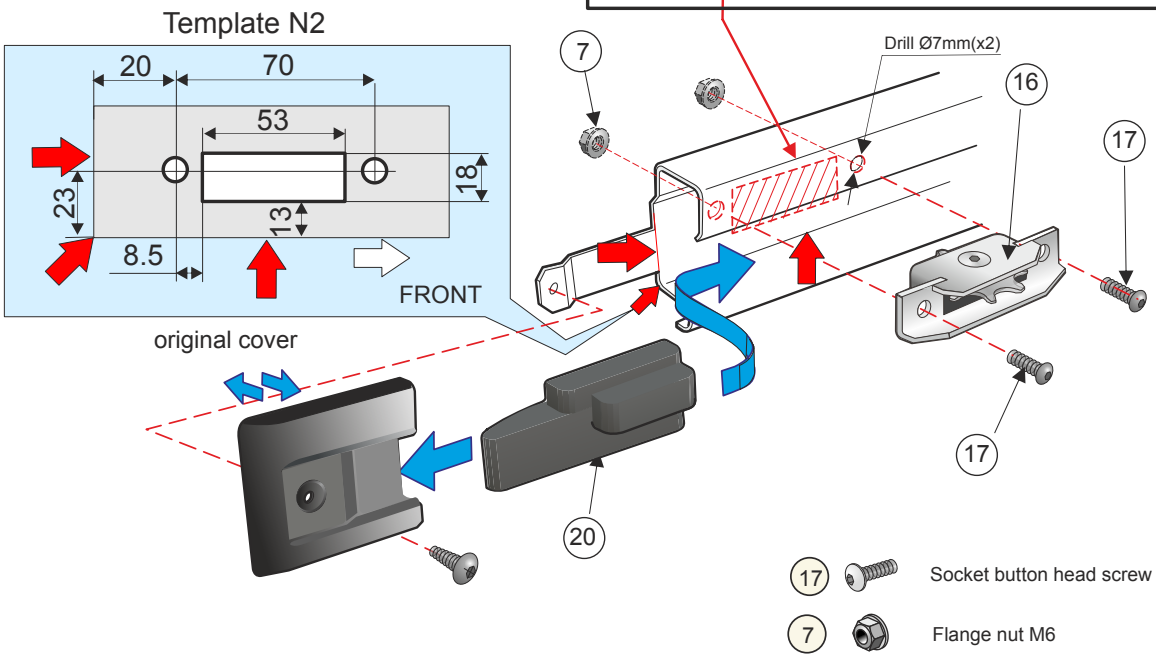

17	Socket button head screw M6x16	- 2
7	Flange nut M6	- 2

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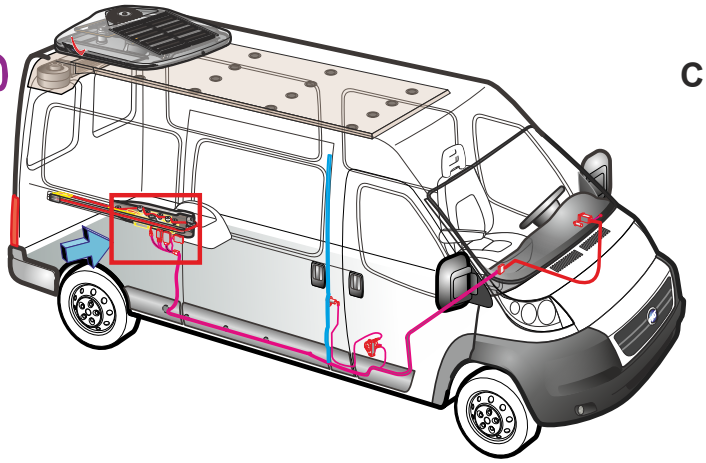

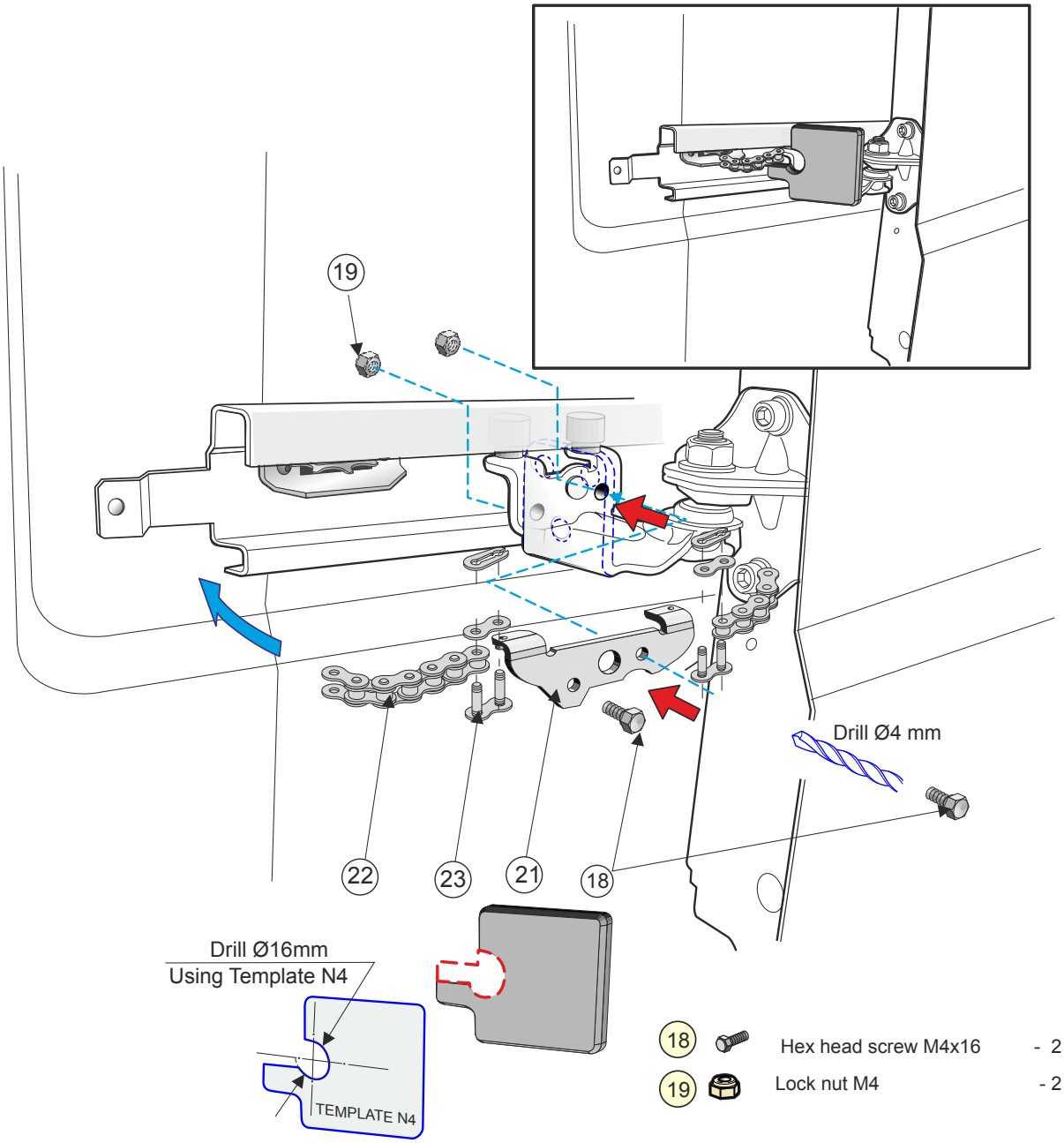

18	Hex head screw M4x16	- 2
19	Lock nut M4	- 2

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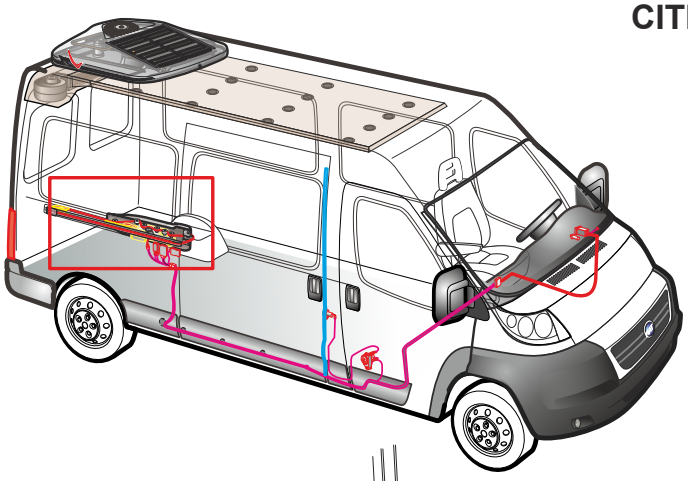

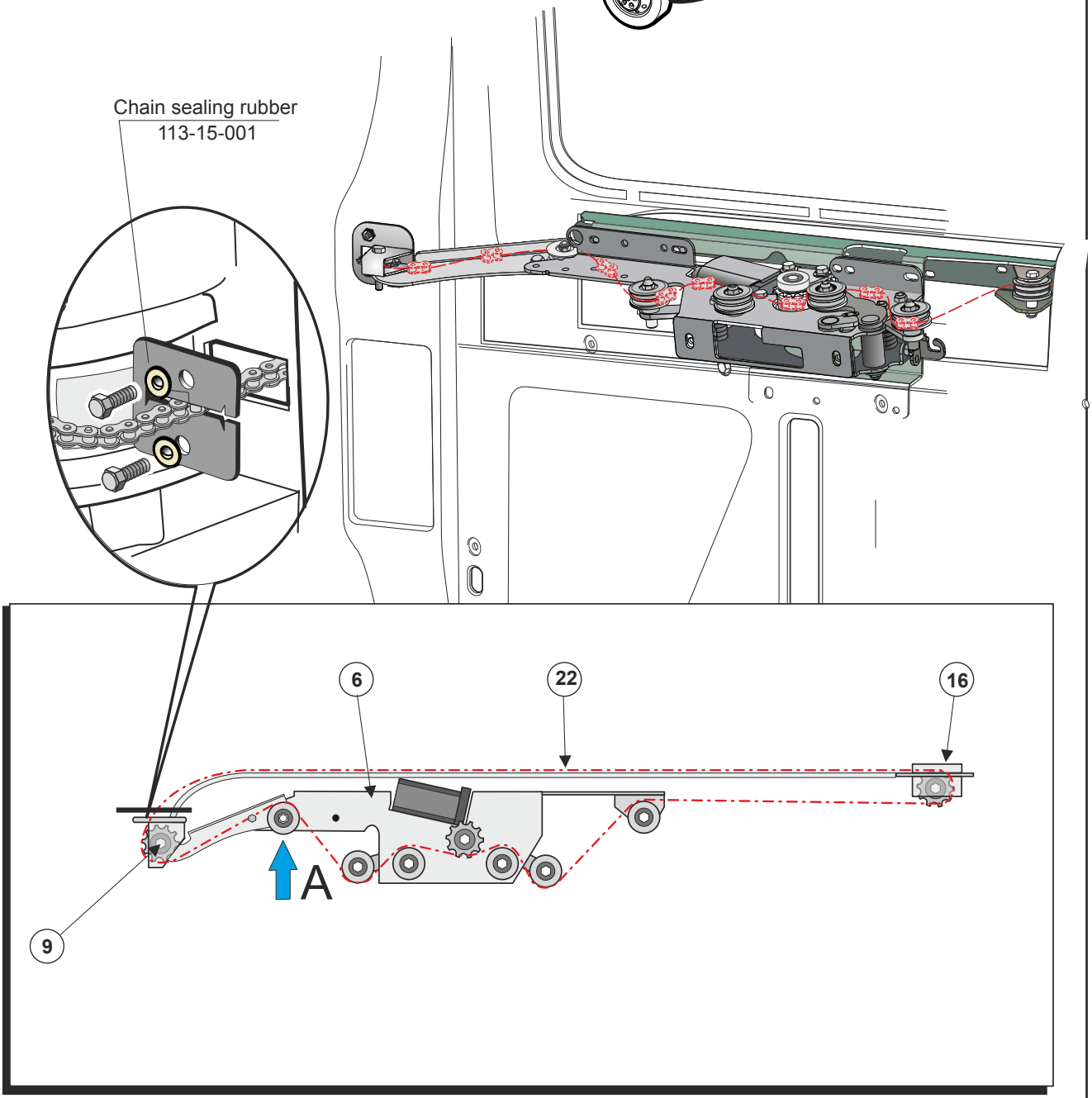

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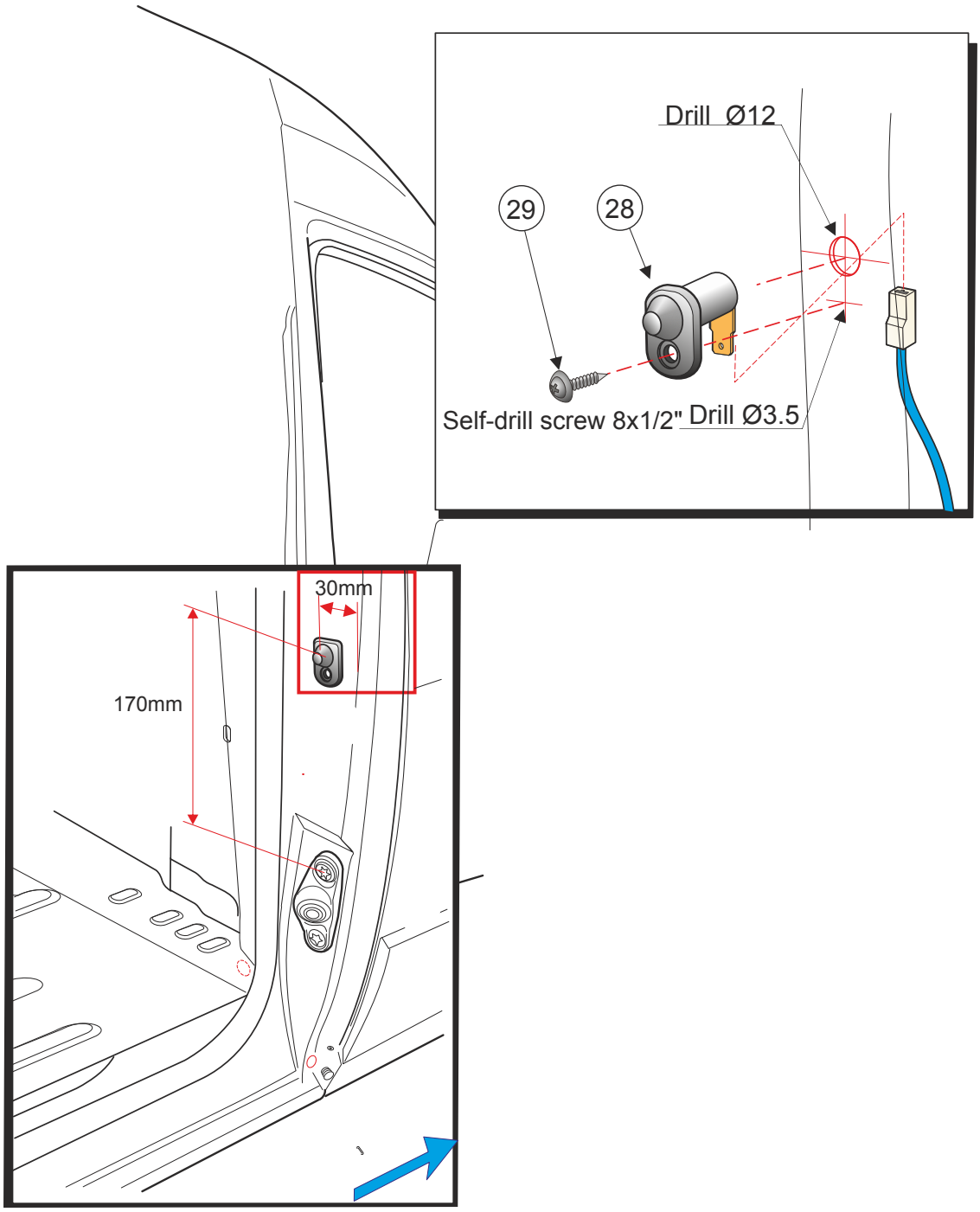

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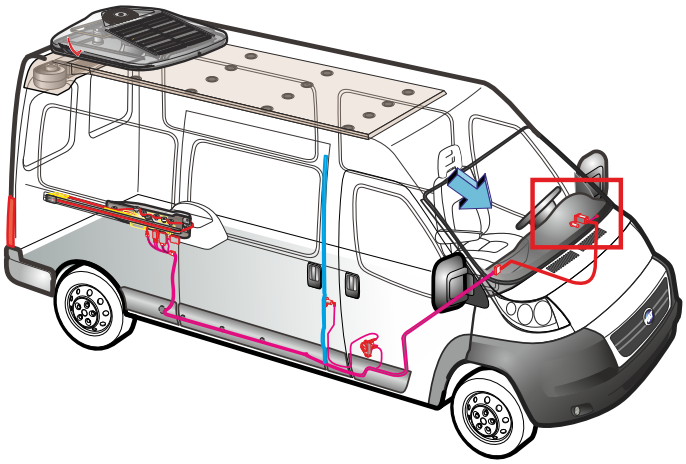

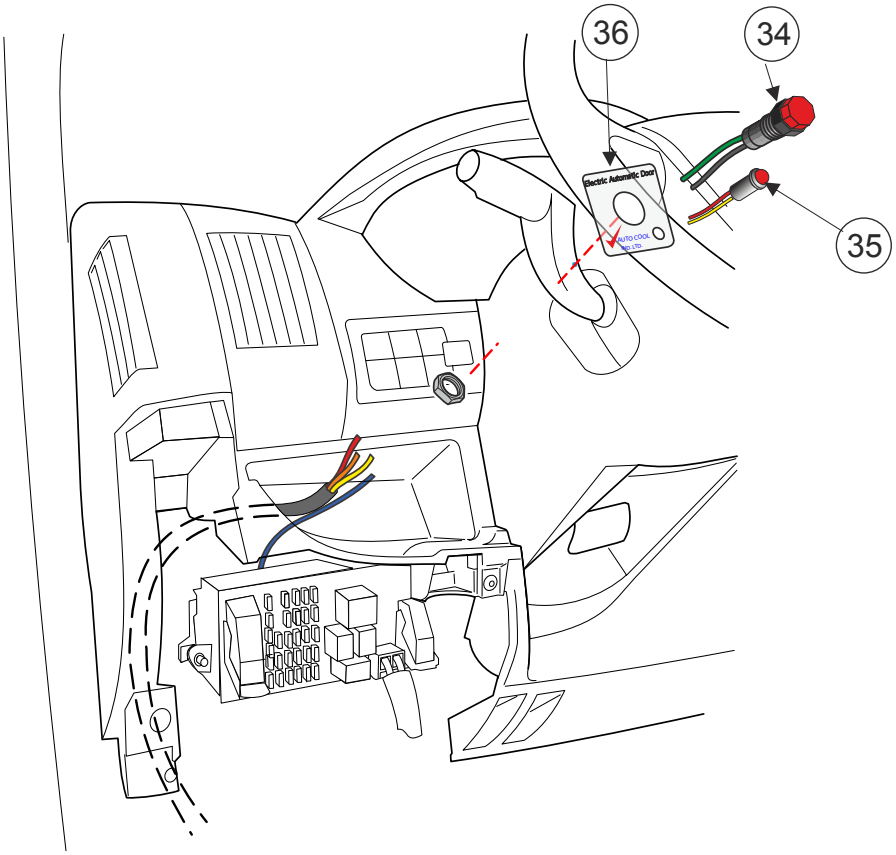

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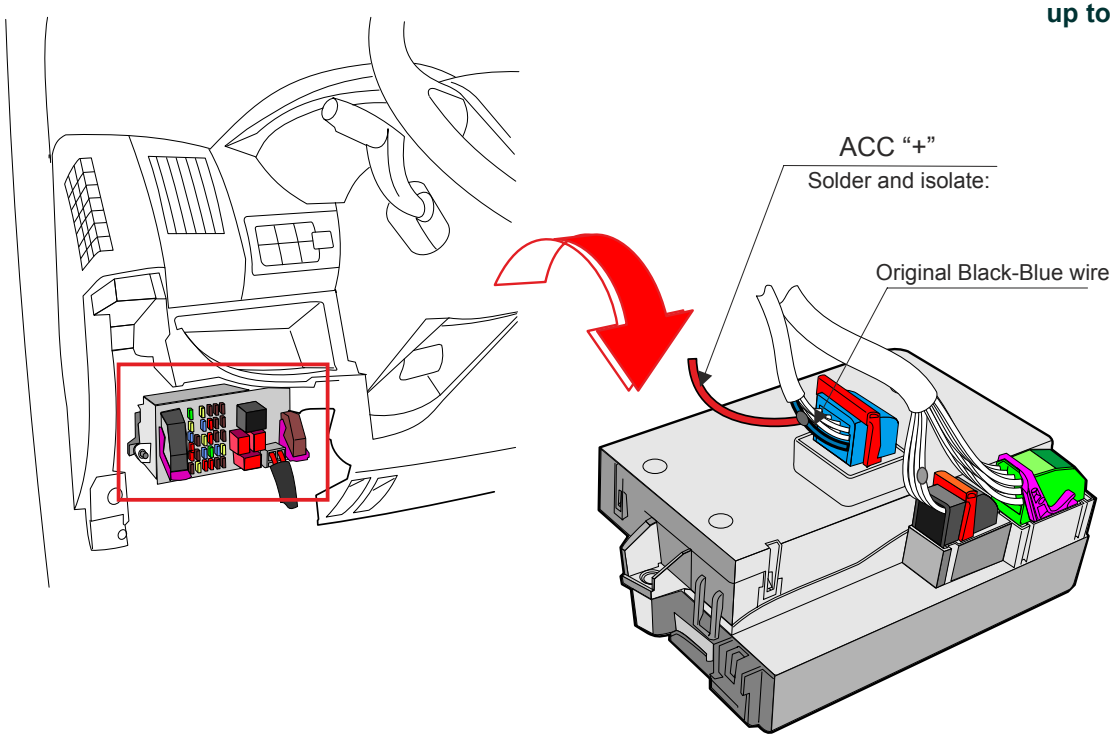
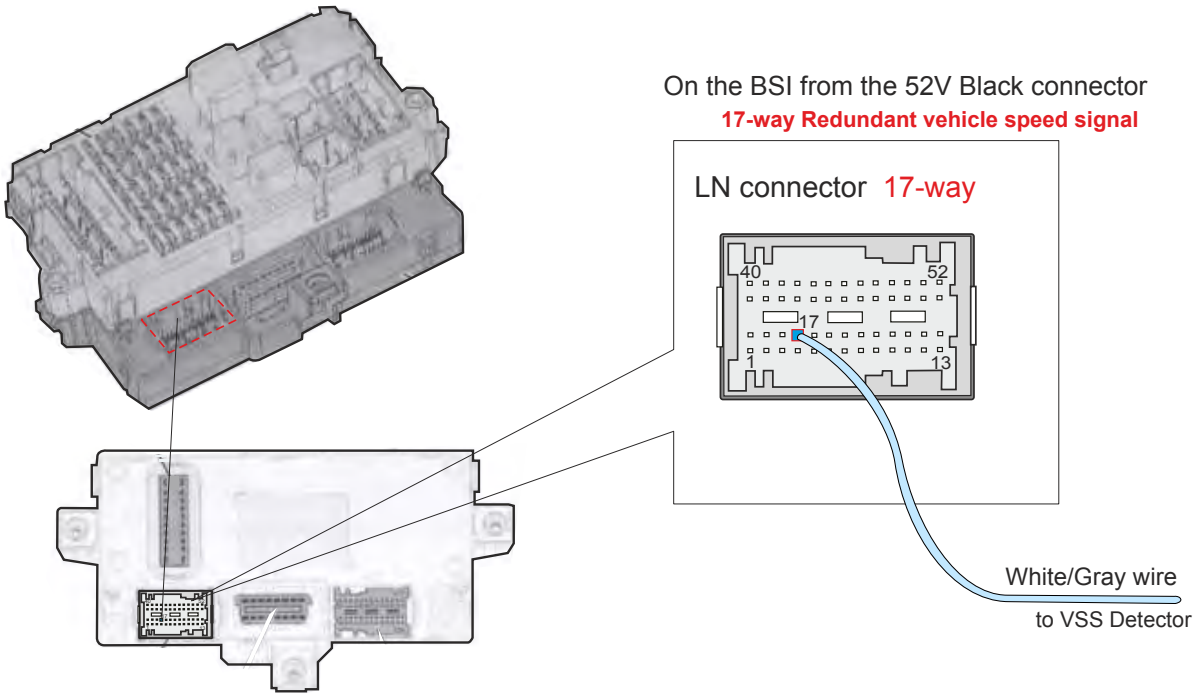
VSS Connection

up to 2012





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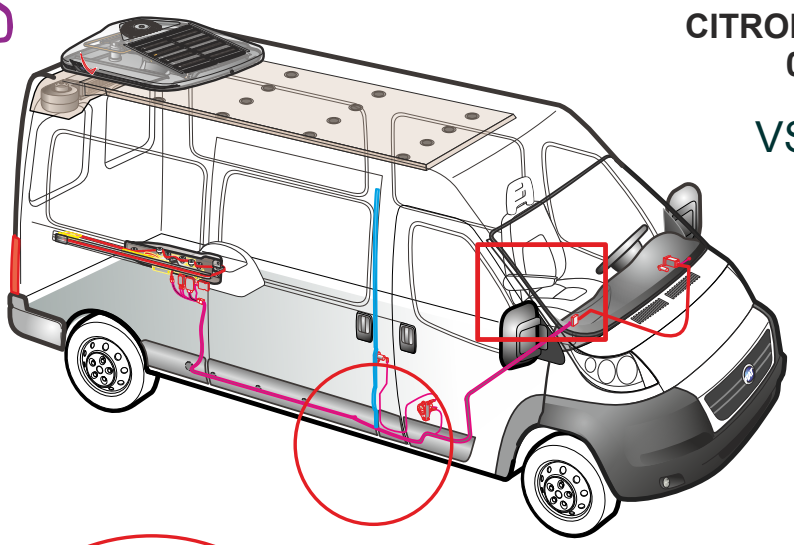
VSS Connection
From 2013



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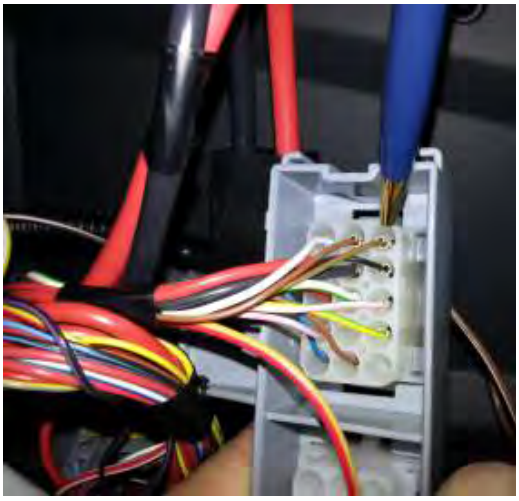
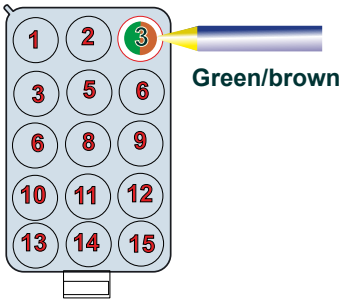
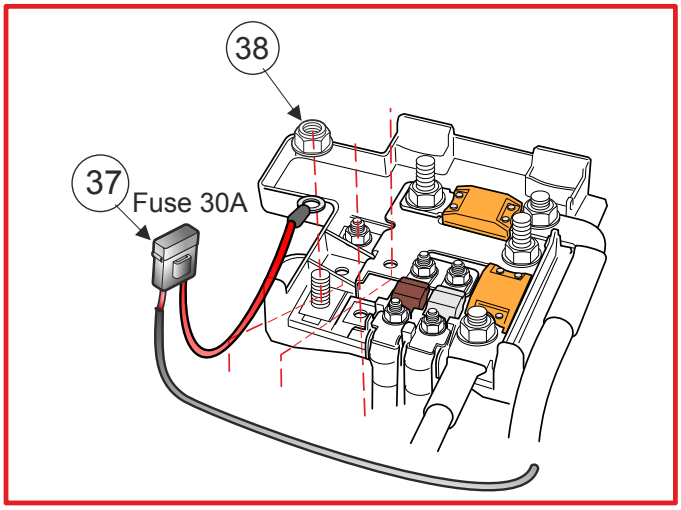


VSS Connection



Green/brown

3



FIAT Ducato
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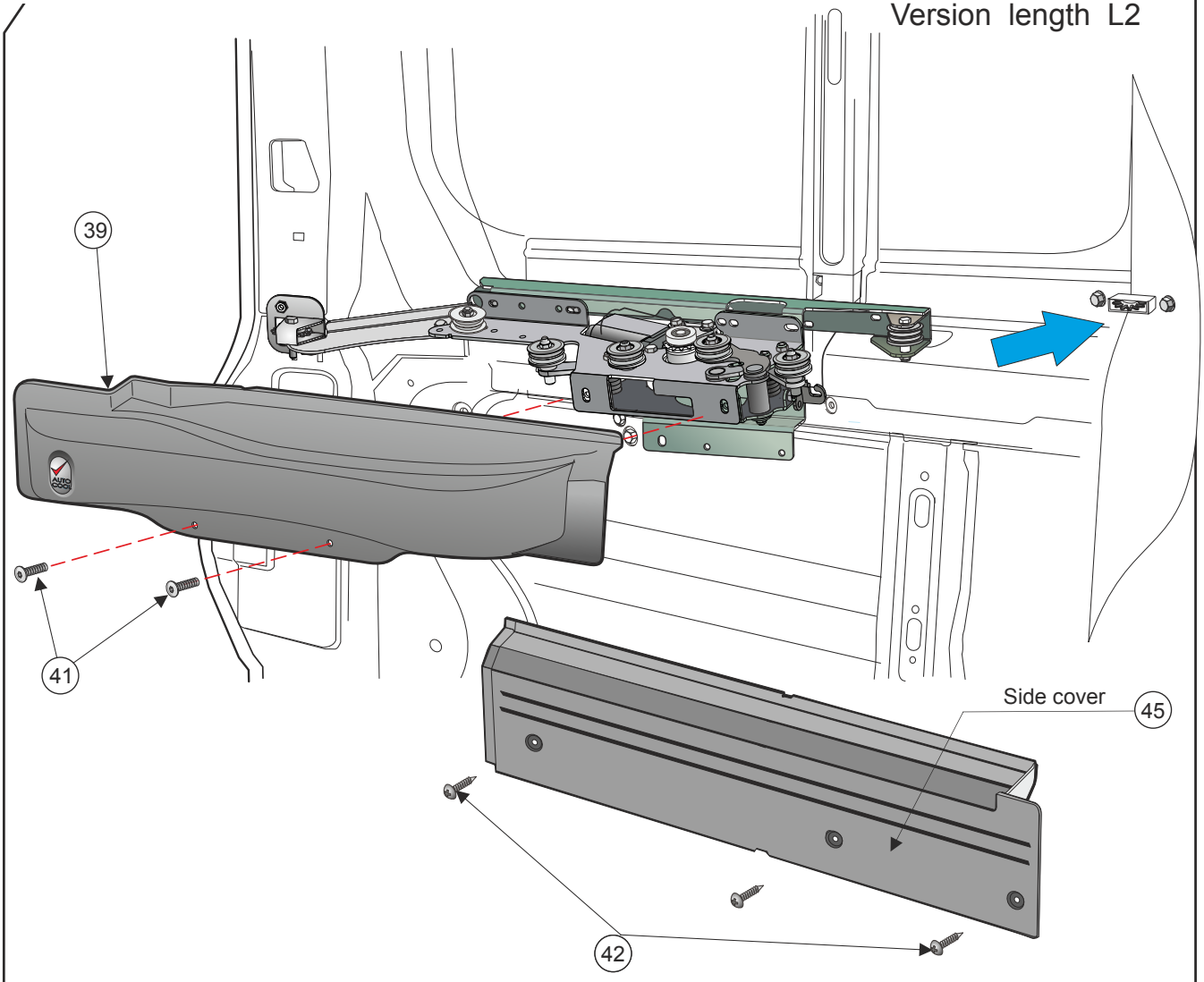
015-0002-DL
Version length L2



Model L-2

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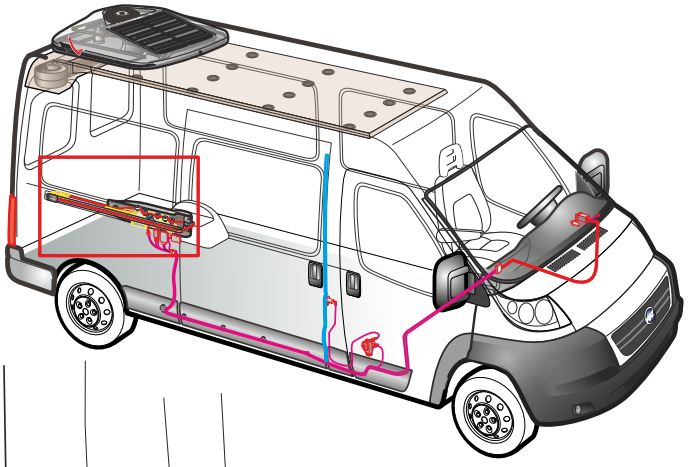
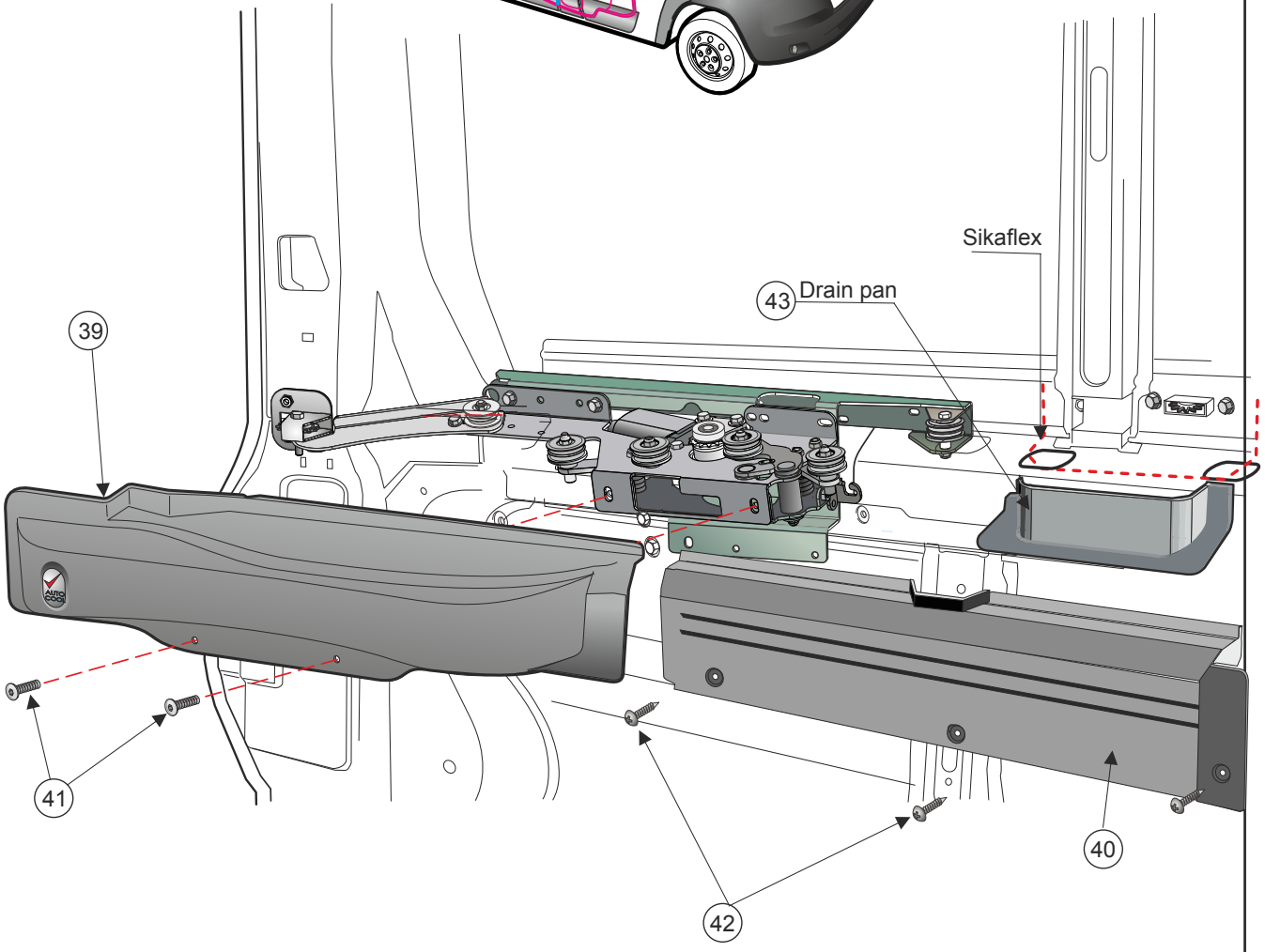
Version length L3





Covers Kit	PN: 151-00-0021

Parts list of ASD system

No	Designation	Part No	Unit	Qty
1	Gear Motor Support	111-00-0021		1
2	Idler Wheel	107-11-004-1		1
3	Hex Bolt M6x25 DIN 933 8.8	632-06-025		4
6	Gear Motor ASSY	111-00-013		1
7	Hex flange nut M6 DIN 6923	601-06-006		12
8	Hex Bolt M6x16 DIN 933 8.8	632-06-016		8
9	Front Idler	111-02-017		1
10	Front Idler Support	128-08-018		1
11	Thick Washer 6 DIN 7349	600-32-061		1
12	Washer 6 DIN 735	600-12-080		6
13	Hex Bolt M6x30 DIN 933 8.8	632-06-030		2
14	Hex Nut M6 DIN 934 Cl6	601-02-006		3
15	Hex Lock Nut M6 DIN 985 Cl8	602-02-006		2
16	Rear Idler	111-02-003		1
17	Socket button bolt M6x16 ISO 7380 10.9	614-06-016		2
18	Hex Bolt M4x16 DIN 933 8.8	632-04-016		2
19	Hex Lock Nut M4 DIN 985 Cl8	602-02-004		4
20	Rear Idler Cover	153-01-0021		1
21	Chain Holder	128-00-0021		1
22	Roller Chain	178-00-002-1	(183 links L-2936mm)	1
23	Connecting link	900-01-072		2
24	Slide Strip	134-01-002		1
25	Flat socket head screw M4x20 DIN 799	613-04-020		2
26	Cable strap	125-10-015		1
27	Star washer 6	600-04-061		2
28	Limit Door Switch	124-00-039		1
29	Self-drill screw 8x1/2"	647-08-003		1

Parts list of ASD system

No	Designation	Part No	Quantity
30	Pneumatic safety switch Pneumatic safety switch ASSY	122-10-047 160-10-042	1
31	Philips Screw 6x3/8"	646-08-017	2
32	Pneumatic Safety Strip	112-06-109	2m
33	Rubber Tube	113-06-067	1
34	Operating switch	124-00-018	1
35	Signal lamp	124-10-069	1
36	Decal	125-00-018	1
37	Fuse 30A	125-10-084	1
38	Hex flange nut M8	601-08-008	1
39	Gear Motor Cover	153-00-0021	1
40	Side Cover L3	153-02-0021	1
41	Flat socket head screw M6x20	613-06-020-1	2
42	Screw 8x3/4"	646-08-024	4
43	Drain pan	153-04-0021	1
44	Rubber grommet	112-04-000	3
45	Side Cover L2	153-15-021	1

FIAT Ducato
PEUGEOT Boxer
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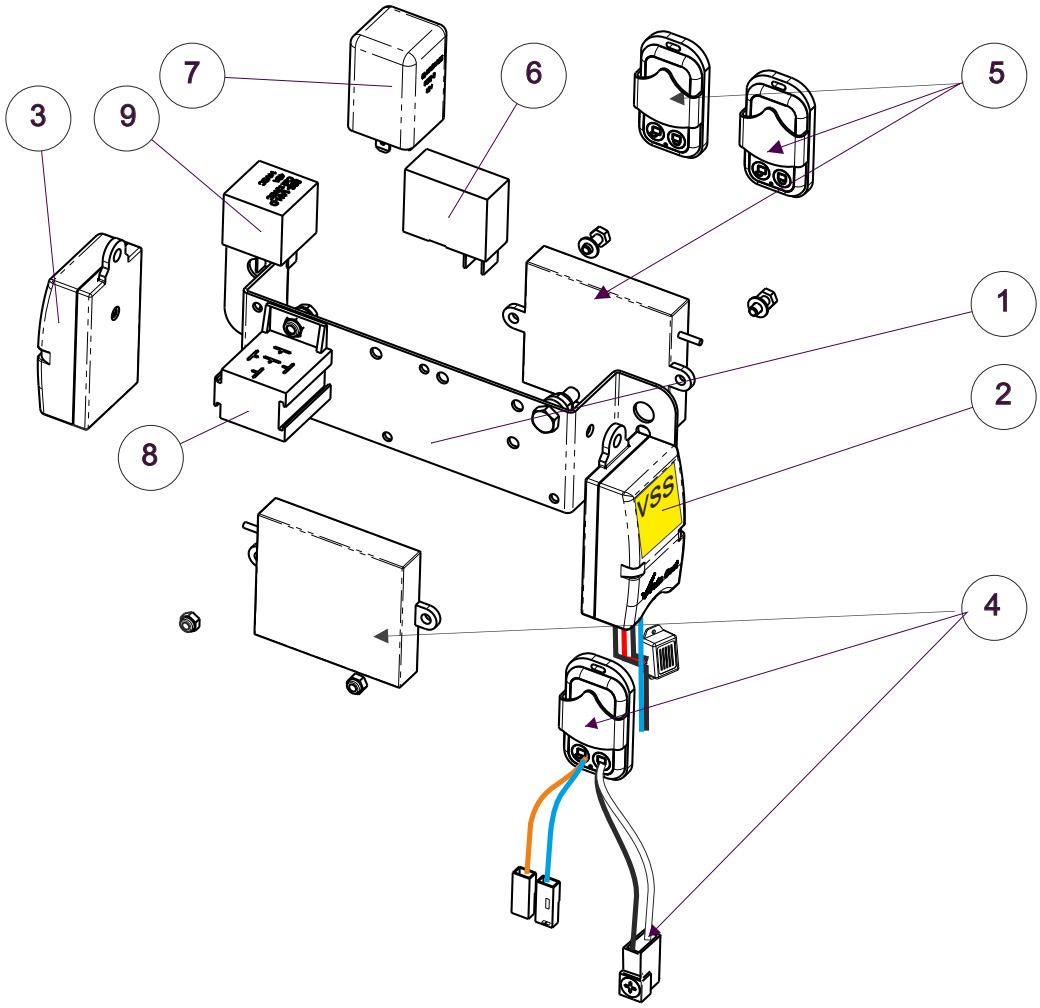
Electric Harness Fiat Ducato

116-15-002-DL



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	128-17-116	Bracket	1
2	124-10-504	VSS detector	1
3	124-38332	Control unit AK-105L V1.913	1
4	124-02-006	LD-007-1 - Remote control kit	1
5	124-02-906	Remote Control Set	1
6	124-13-902	Latching relay 12v ASSY	1
7	124-00-032	Buzzer 12v	1
8	124-10-052	Socket terminal relay	1
9	R2A4-124	Relay	1

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FIAT Ducato
PEUGEOT Boxer
CITROEN Jumper / Relay
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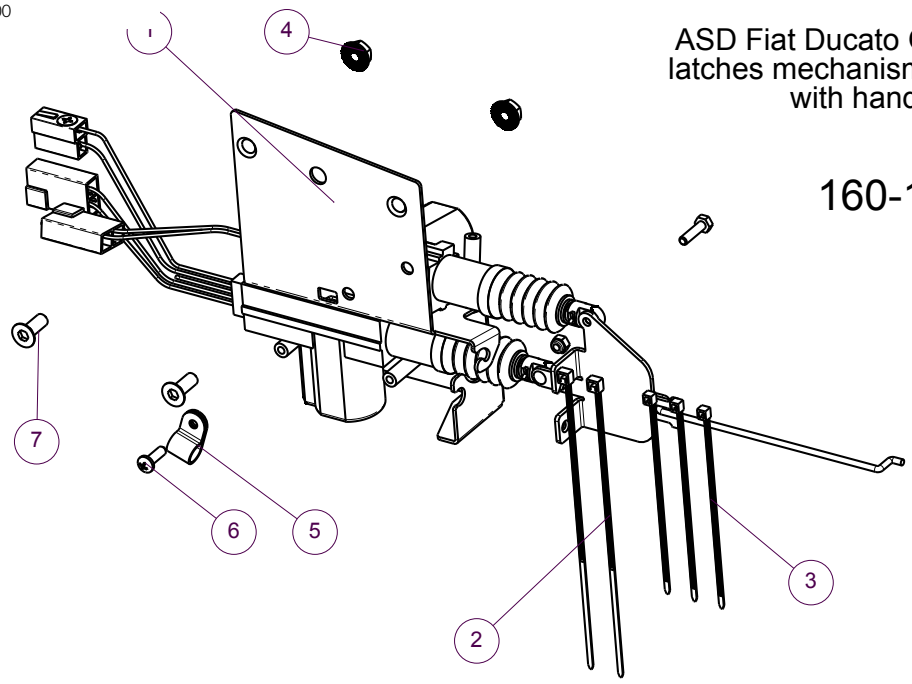
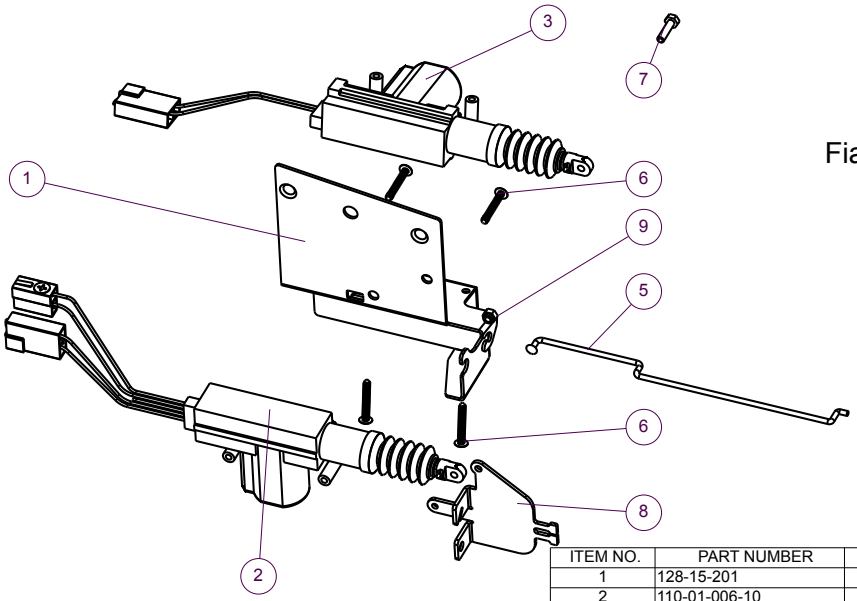
ASD Fiat Ducato Original Door latches mechanism & operation with handles

160-15-201



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	111-15-201	Fiat Ducato locker bracket ASSY	1
2	125-10-014	Cable strap 100mm	2
3	125-10-016	Cable strap 150mm	3
4	601-06-006	Hex flange nut M6 DIN 6923	2
5	125-10-005	Plastic clamp UC-2 3/8"	1
6	646-08-020	Phillips screw 6x3/8"	1
7	613-06-016	Socket flat head screw M6X16	2

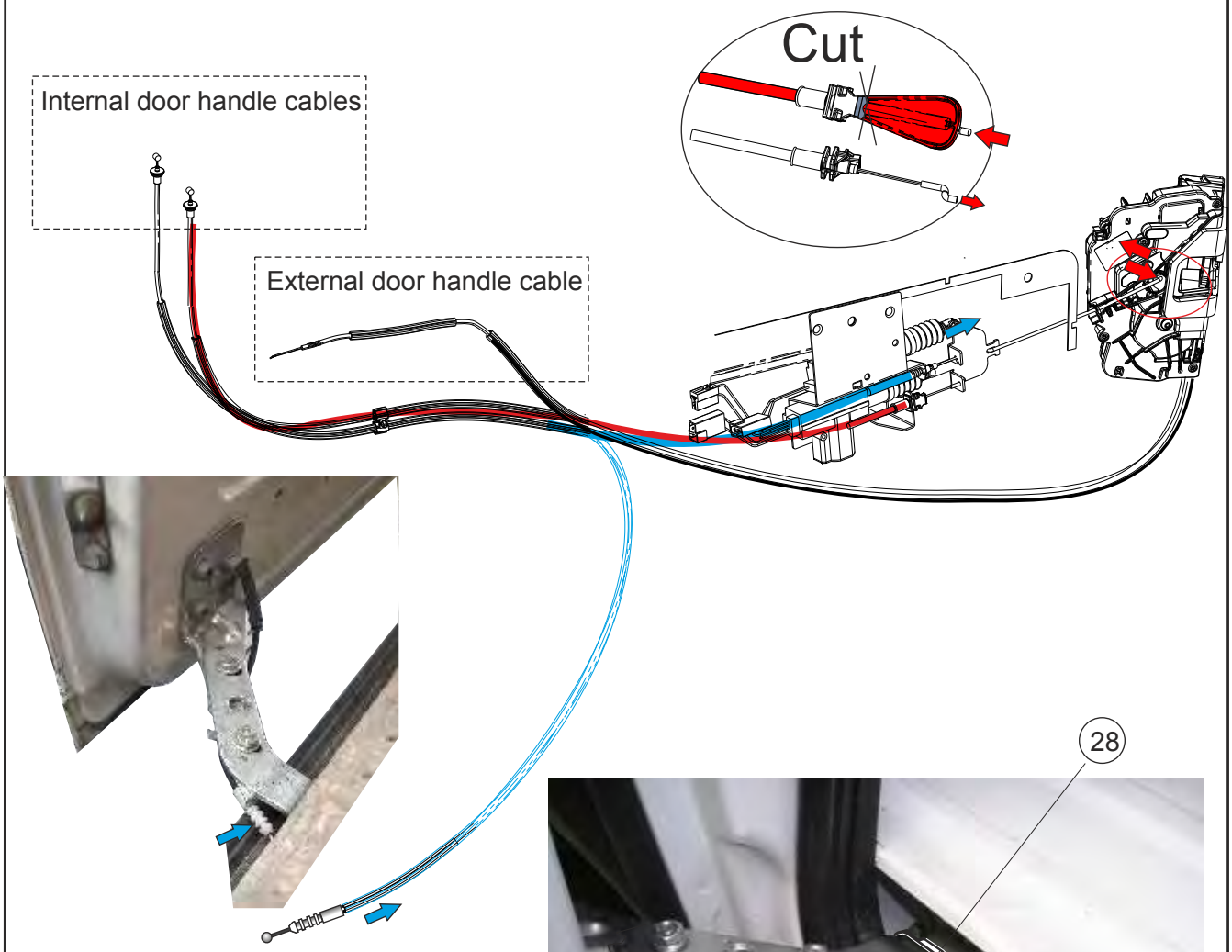


Fiat Ducato locker ASSY

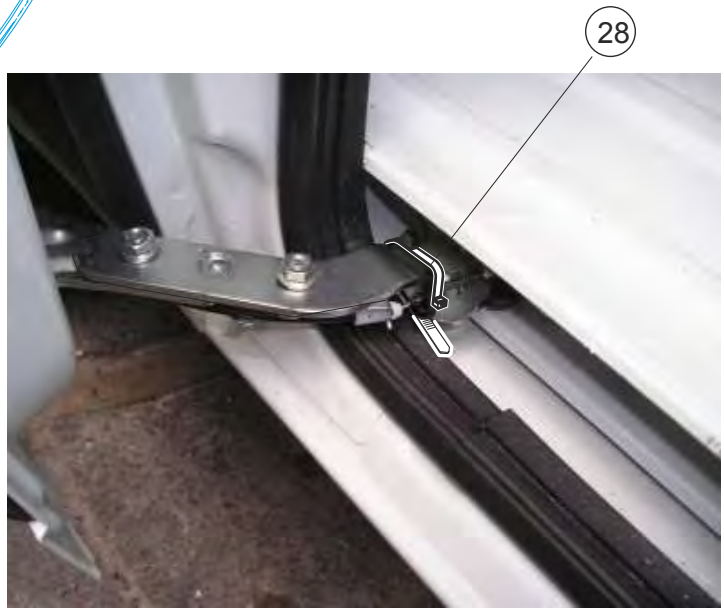
111-15-201

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	128-15-201	Actuator bracket	1
2	110-01-006-10	Lock actuator ASSY	1
3	110-11-006	Actuator ASSY	1
5	128-36-309	V363: V408 Lock Actuator arm	1
6	Philips cross Screw 4.2		4
7	632-04-016	Hex bolt M4x16 , DIN933	1
8	128-15-203	Cables adapter	1
9	602-02-004	Lock nut M4 DIN985	

FIAT Ducato
PEUGEOT Boxer
CITROEN Jumper / Relay
015-0002-DL

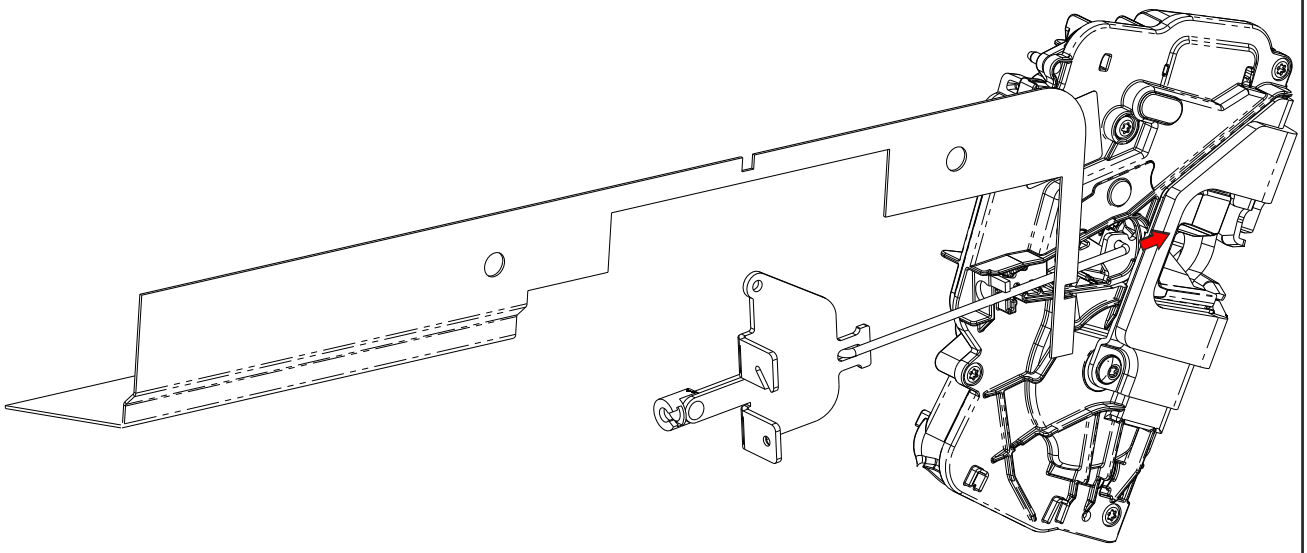


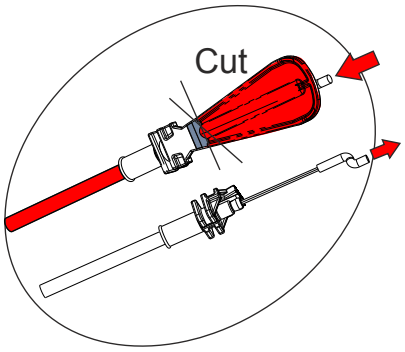
lower release cable



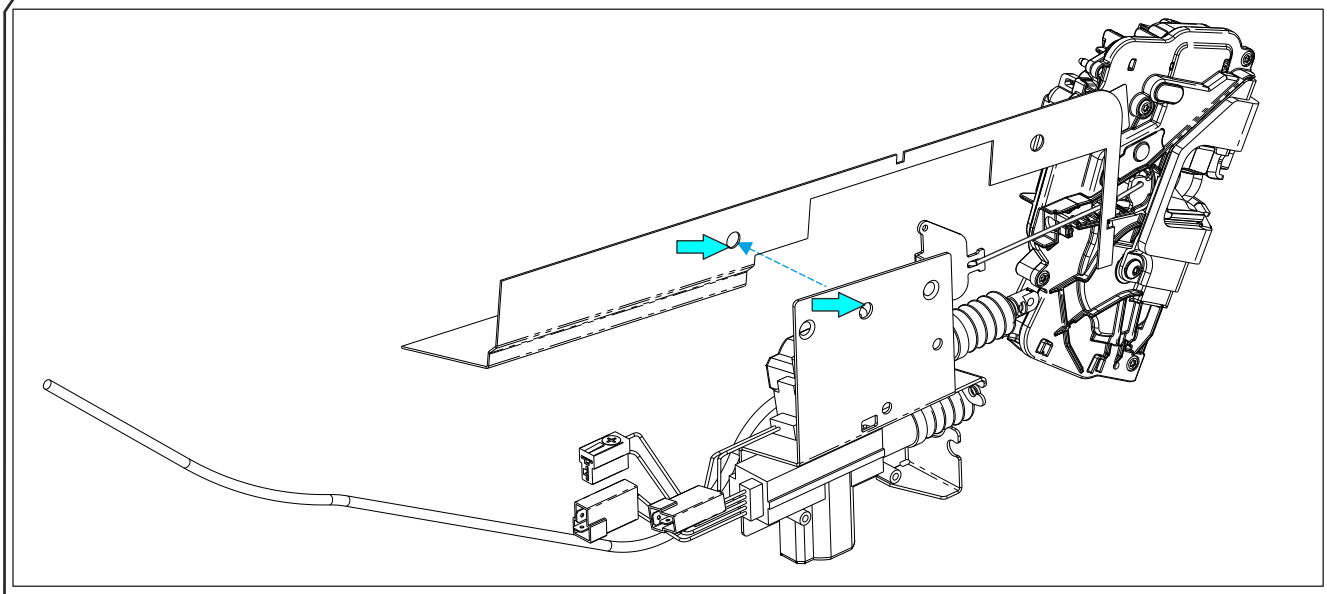
Cancel the lower latch

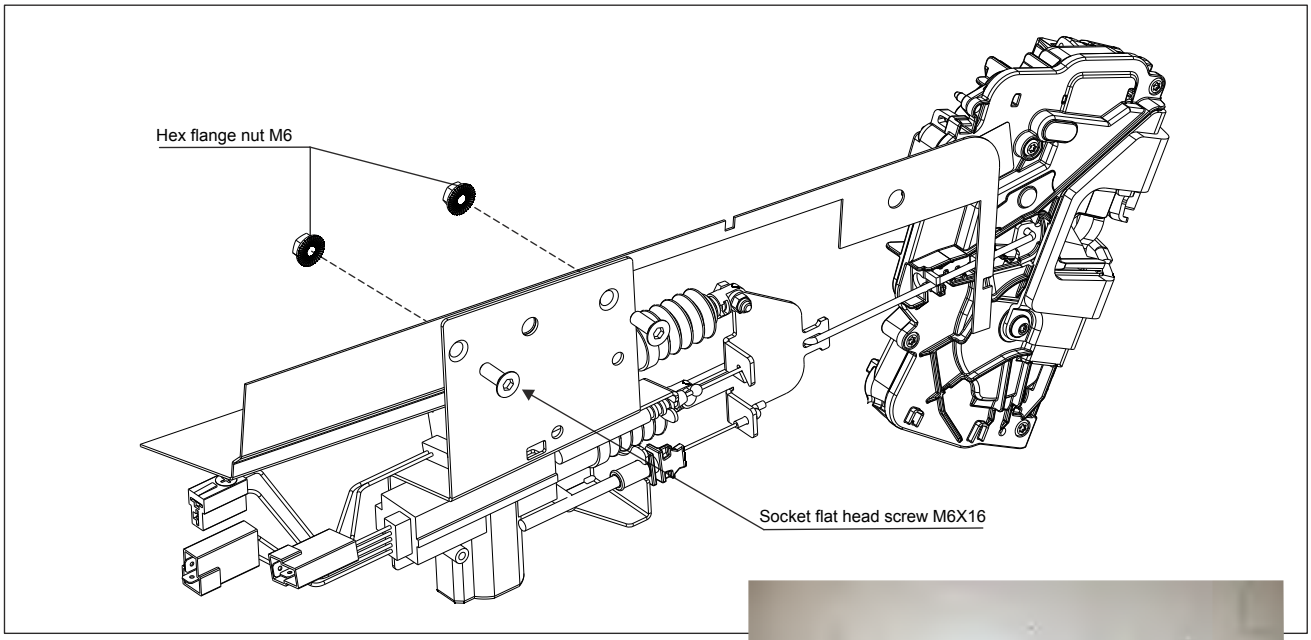
FIAT Ducato
PEUGEOT Boxer
CITROEN Jumper / Relay
015-0002-DL





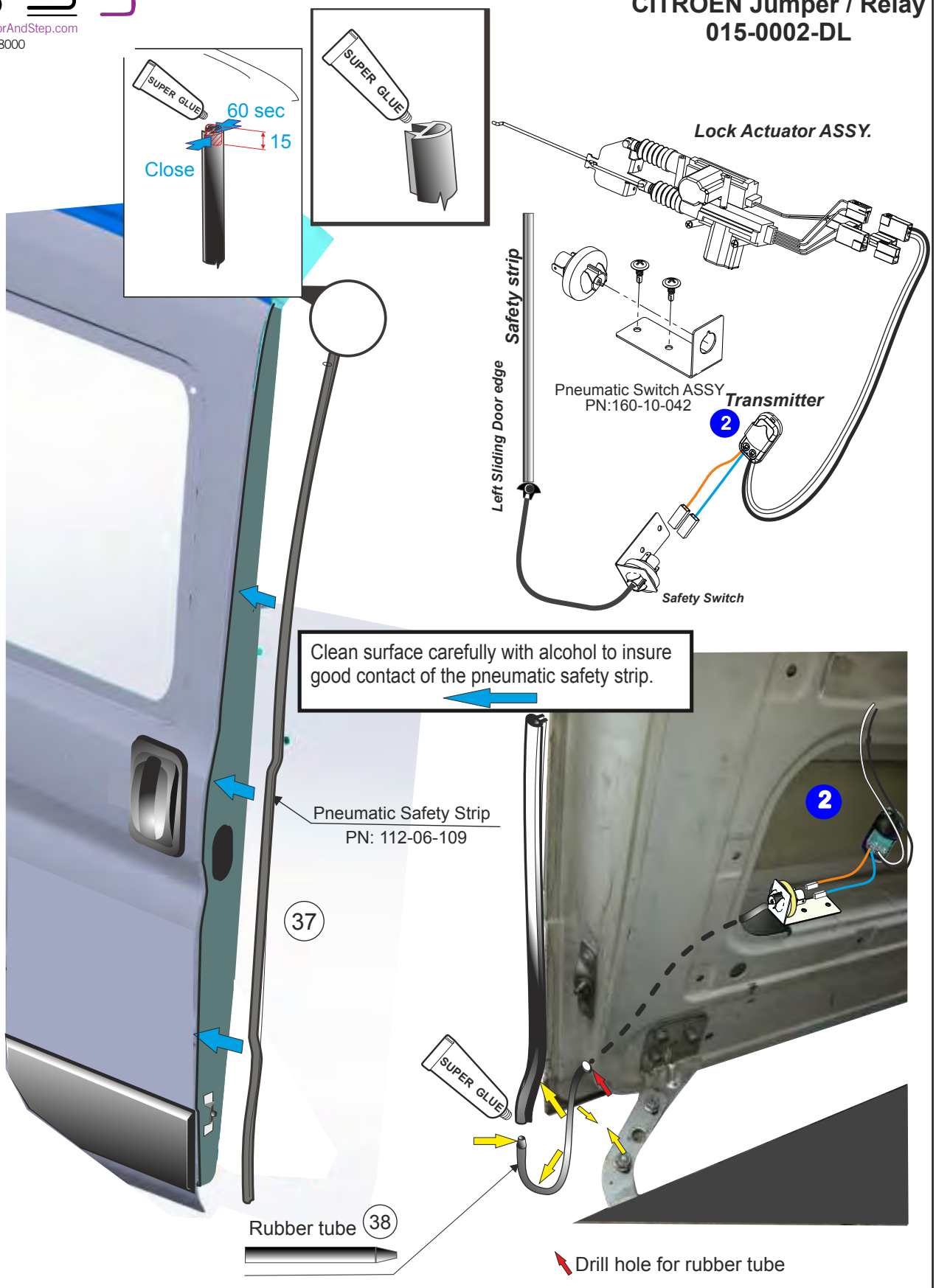
FIAT Ducato
PEUGEOT Boxer
CITROEN Jumper / Relay
015-0002-DL



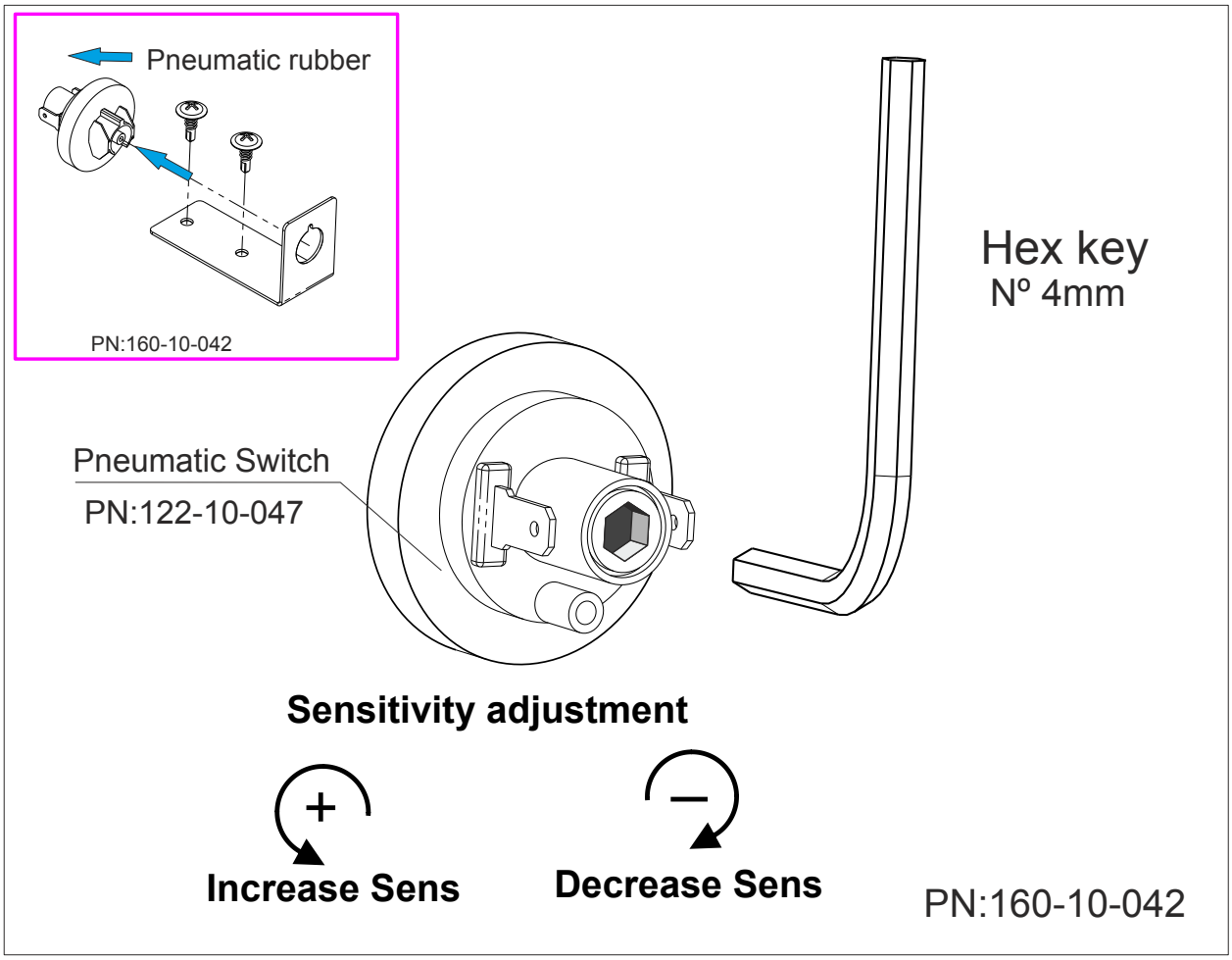


Power Door & Step
PowerDoorAndStep.com
888.928.8000

FIAT Ducato
PEUGEOT Boxer
CITROEN Jumper / Relay
015-0002-DL



Pressure Safety Switch



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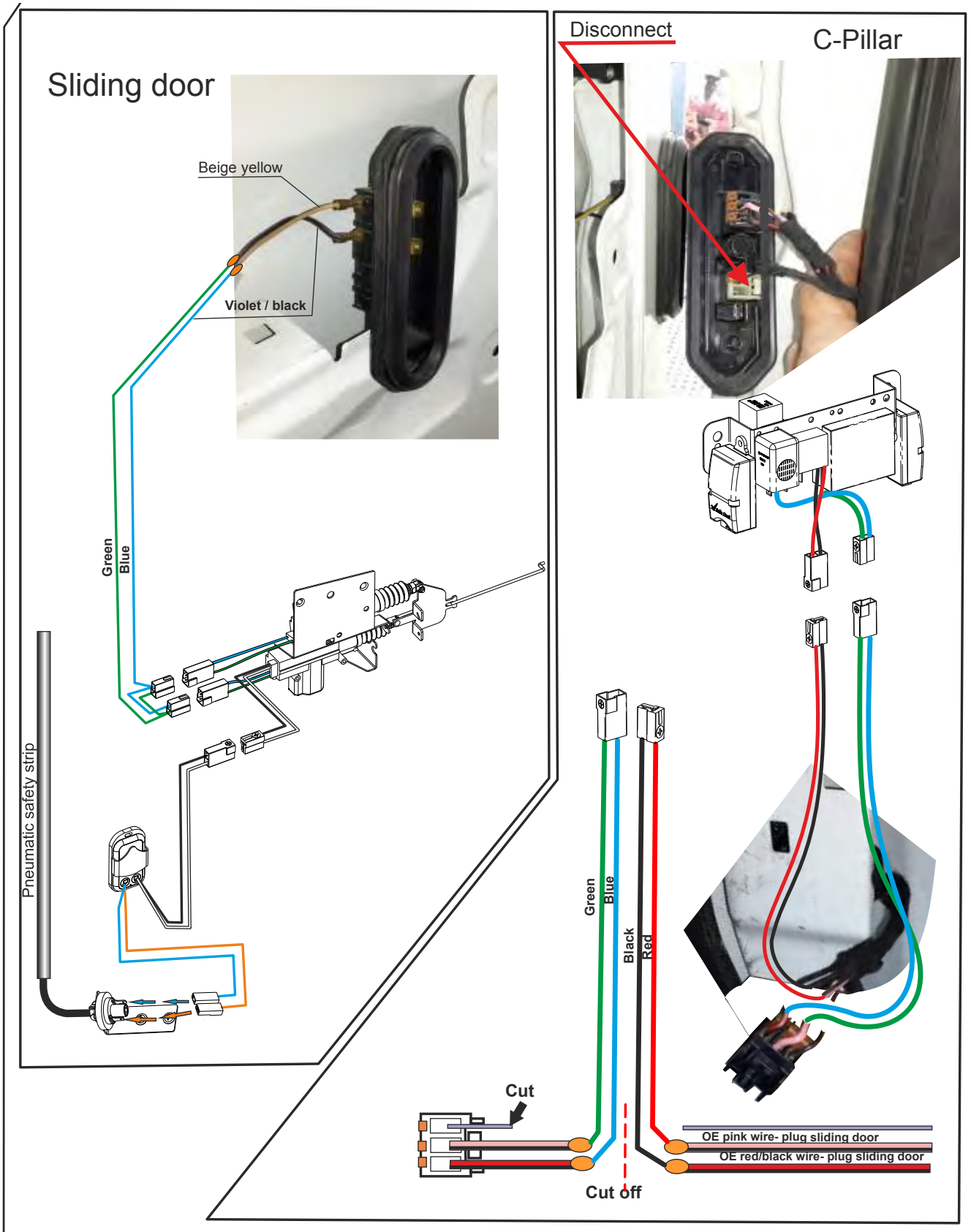

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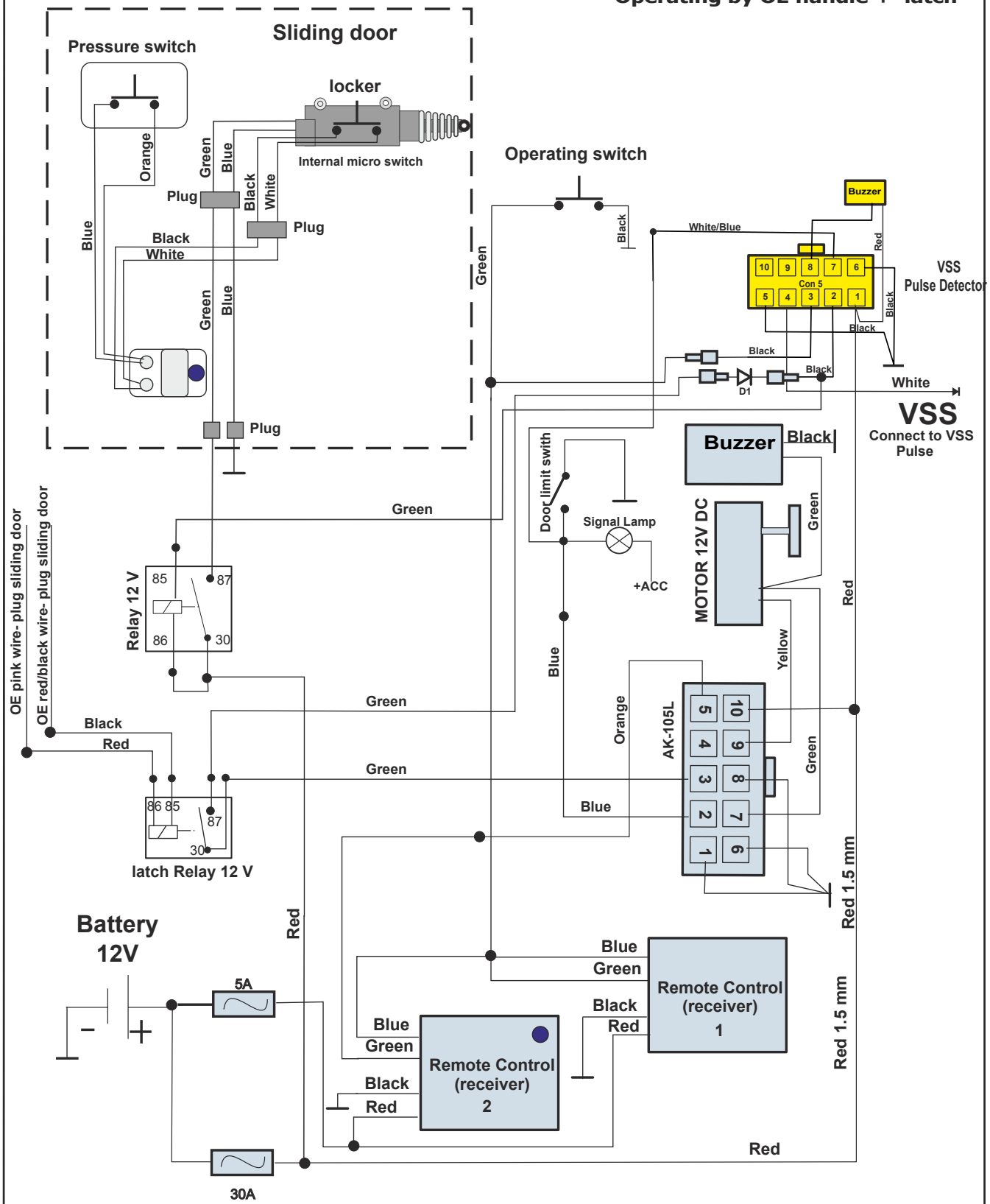
Operating by OE handle + latch



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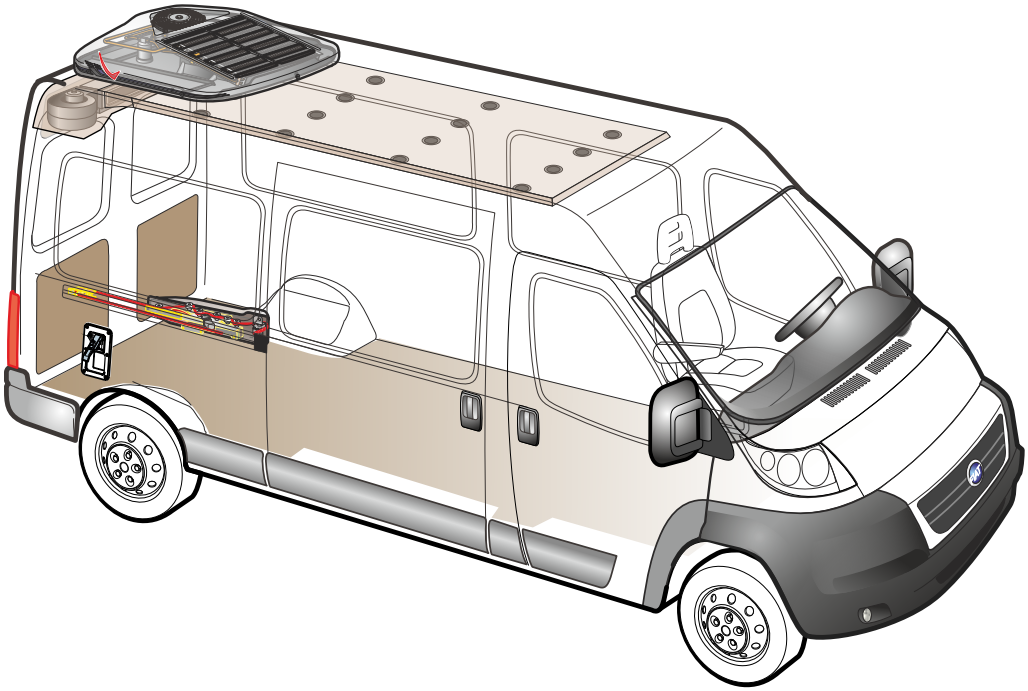
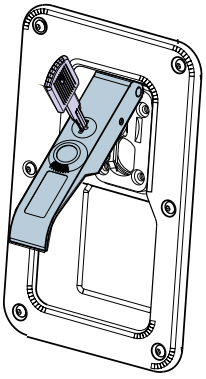




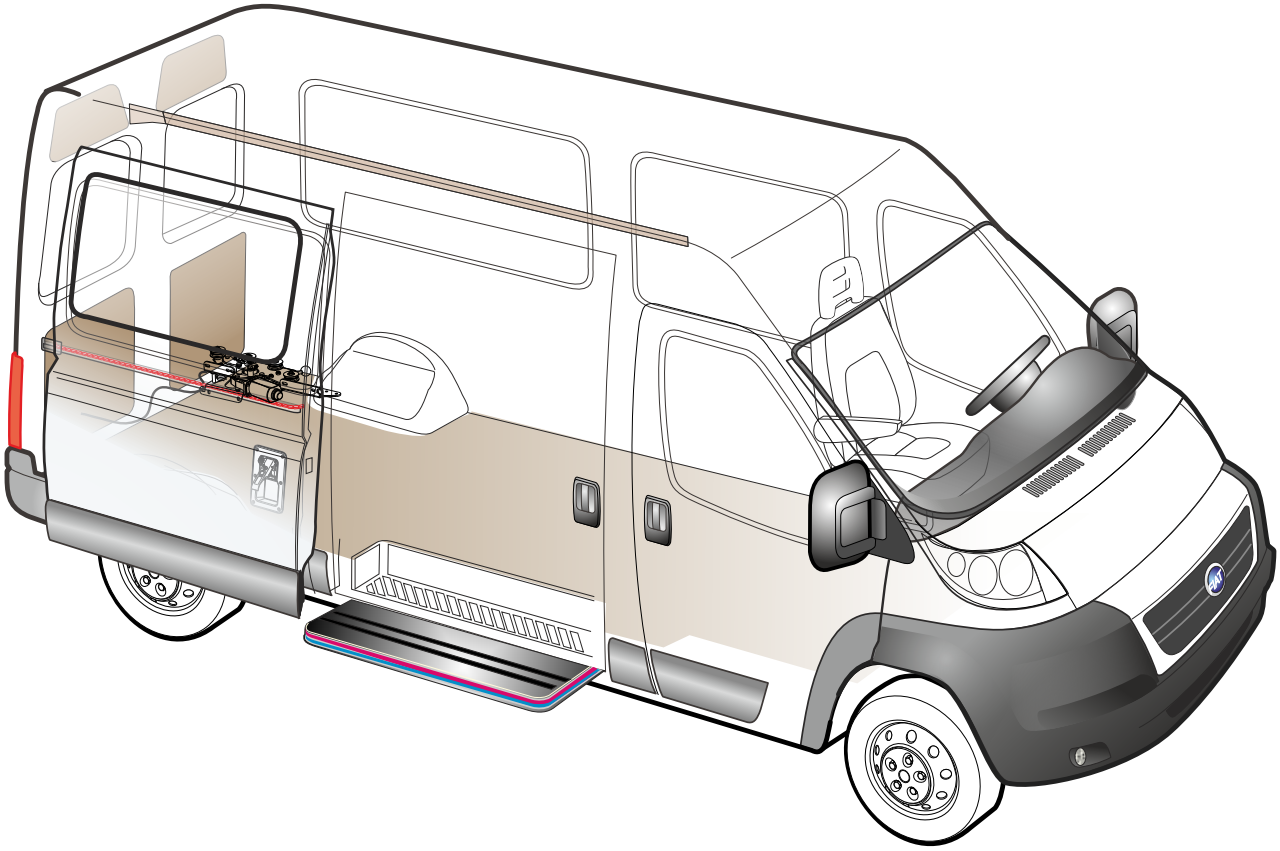
ASD

Automatic Sliding Door

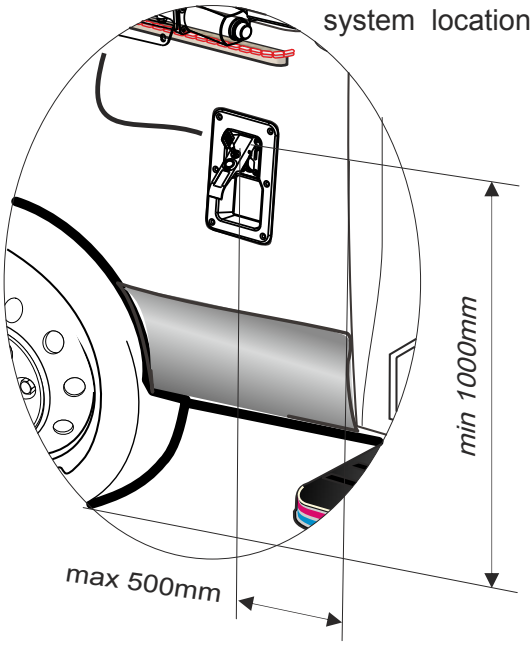
External emergency door opening kit

PN: 111-03-013

FIAT Ducato
PEUGEOT Boxer
CITROEN Jumper / Relay
015-0002-DL



Recommended Emergency door opening system location



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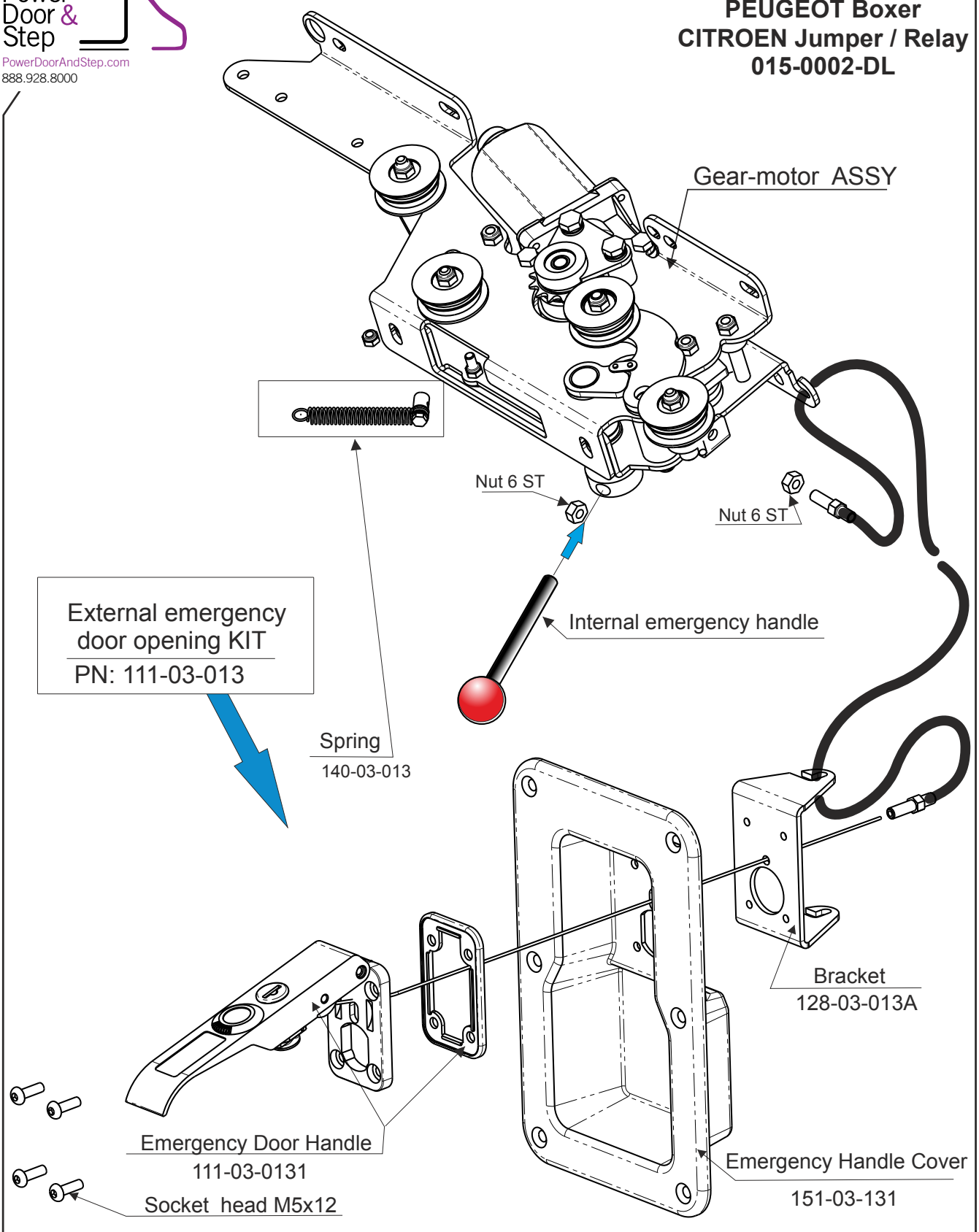
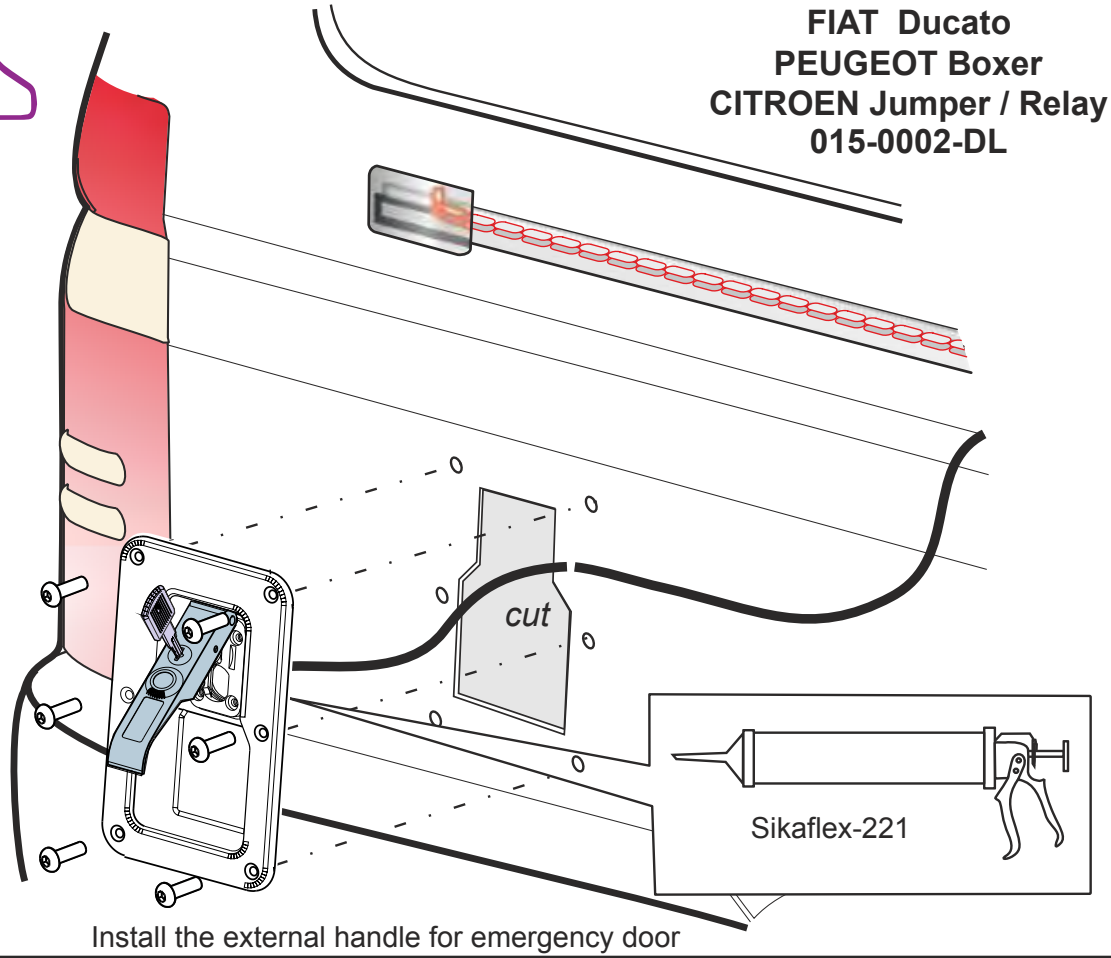


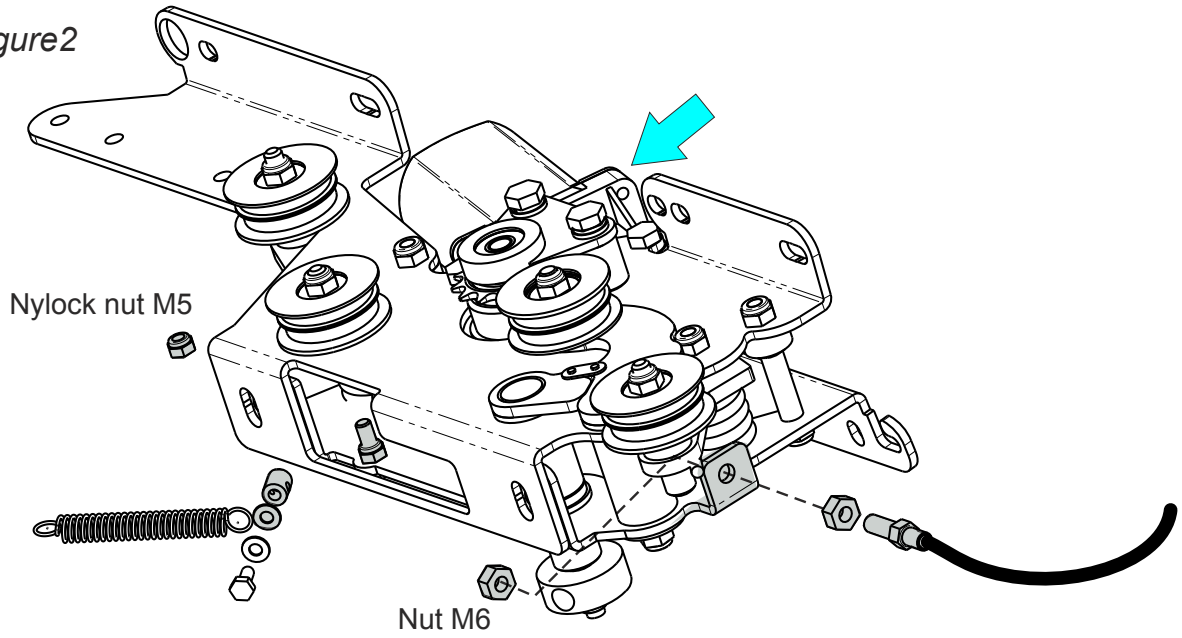
FIAT Ducato
PEUGEOT Boxer
CITROEN Jumper / Relay
015-0002-DL

Figure1



Install the external handle for emergency door

Figure2



To install the cable:
Verify that the Internal emergency handle is on closed position.
Insert the cable into the hole (see figure 2) fasten nuts M6

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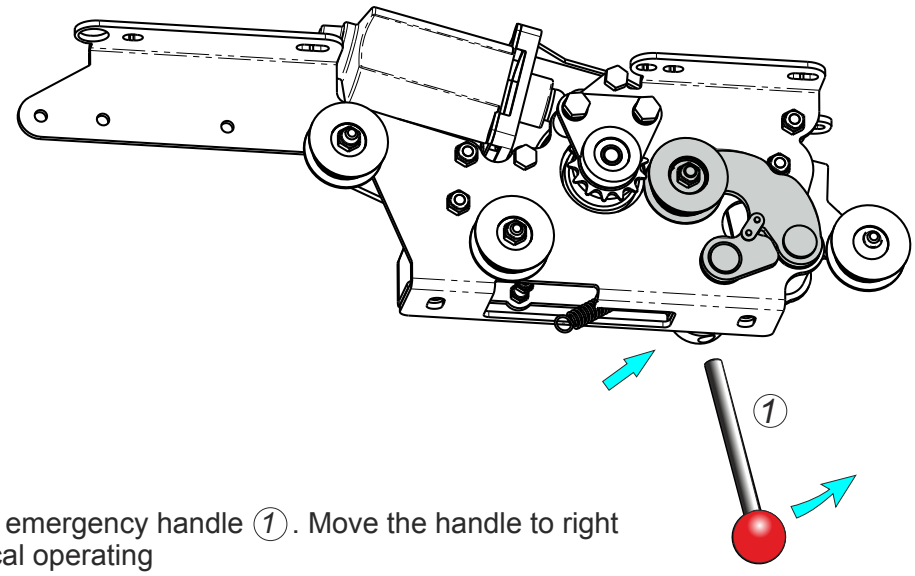
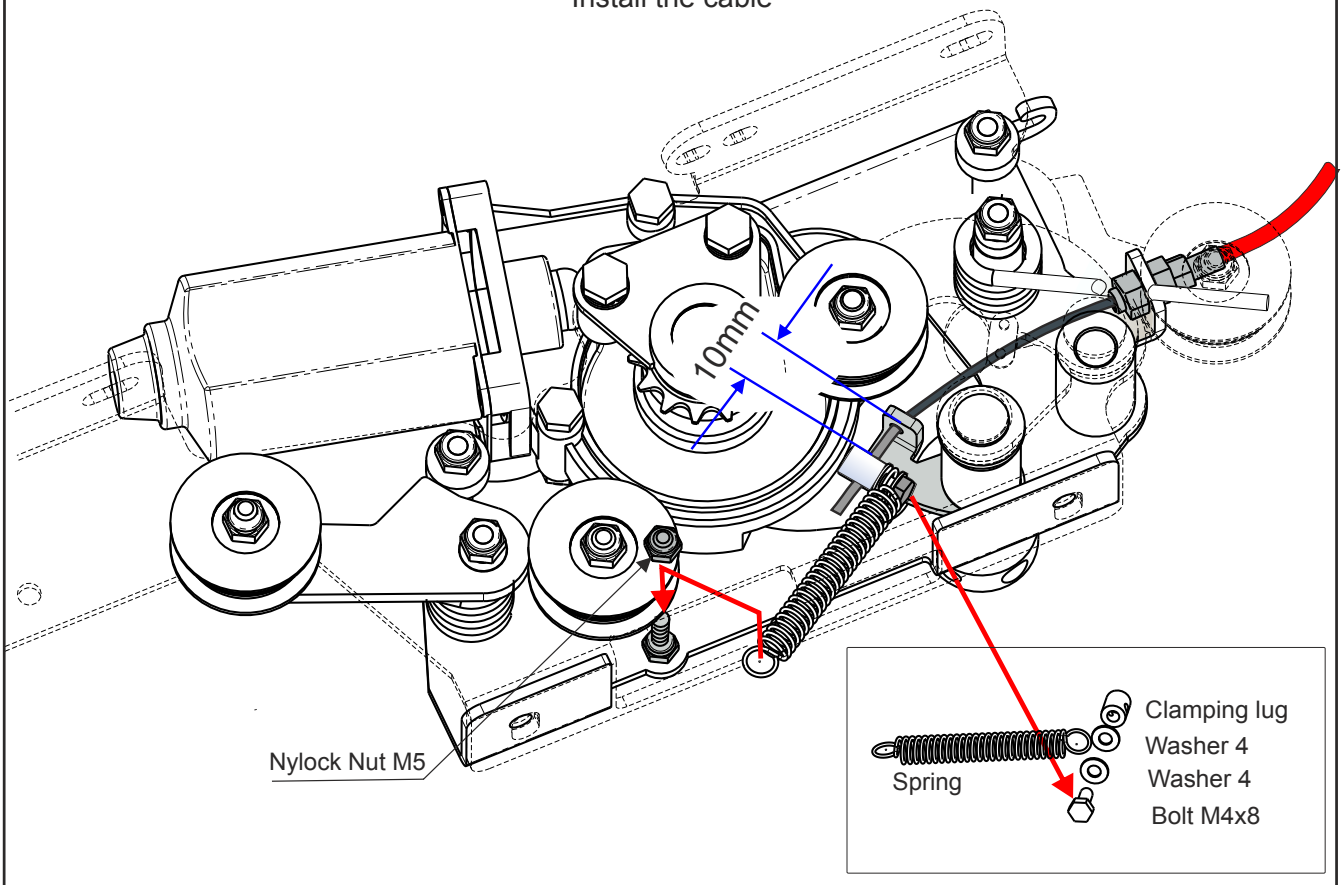
PEUGEOT Boxer
CITROEN Jumper / Relay
015-0002-DL

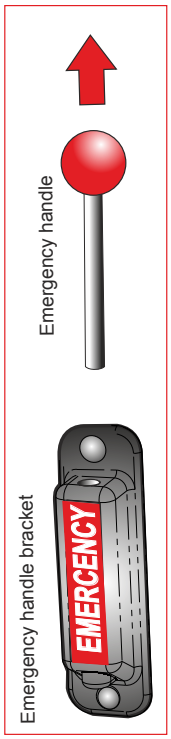


Insert the emergency handle ①. Move the handle to right for electrical operating

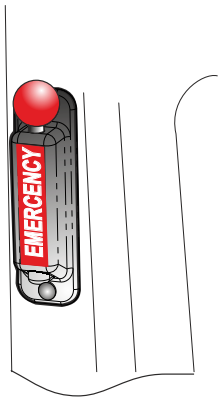
Install the cable

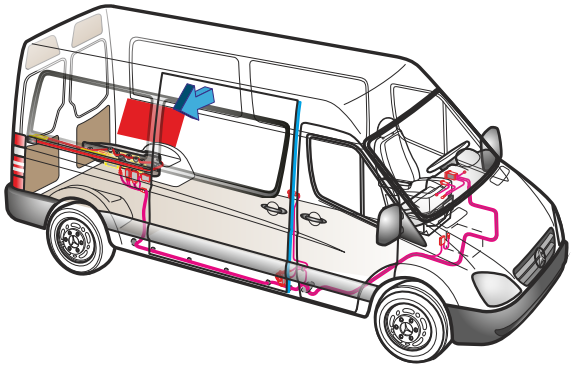


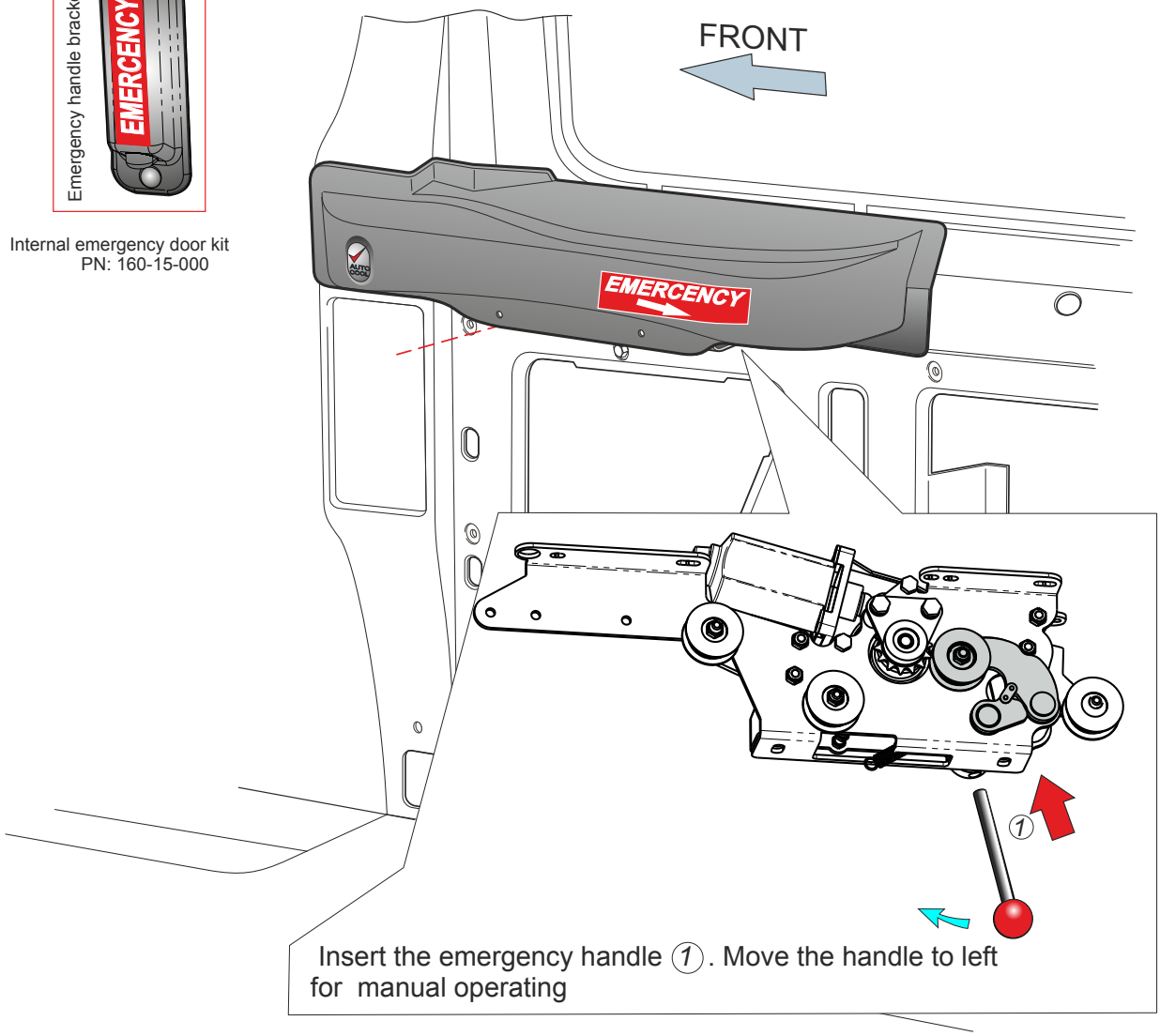
FIAT Ducato
PEUGEOT Boxer
CITROEN Jumper / Relay
015-0002-DL



Internal emergency door kit
PN: 160-15-000

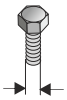






Insert the emergency handle (1). Move the handle to left for manual operating

Recommended Torques
[newton meter]

	8.8	TORQUE [Nm]		TORQUE [Nm]
M5		6.031	M5	8
M6		10.3	M6	10
M8		25.4	M8	13

Automatic Sliding Door user's Manual

The Automatic Sliding Door system (ASD) manufactured by Auto Cool Ltd conforms with the requirements of the European regulations.
The ASD is approved by the German TUV in Munich, it complies with the **EEC DIRECTIVE 72/245EC and obtained the certificate of compliance No 2004/104/EC.**

Operation Instructions

The door is operated by a switch located on the dashboard:
To open–press the switch shortly, door opens to the end of its range.
To close - press the switch shortly, door closes and locks.
To change its direction while in motion - press the switch shortly, the door will change direction.
To control the opening range – continuous pressure on the control switch will set the door in motion upon its release, the door will stop.
Visual status indications – when the vehicle's main ignition switch is "on", the indication control light is visible.
Dim light – the door is closed.
Bright light – the door is open.
Audio status indicators – independently of the vehicle's main switch – the vehicle's buzzer is always functioning whenever the door is in closing motion.

Safety measures

The system includes **safety features** to protect the passengers.

Closing – when encountering an obstruction, the controller automatically reverses the door direction to open all the way .
In addition, a pneumatic switch is attached to the front side of door pillar, which upon sensing pressure performs the same function and retracts immediately.
Opening - when encountering an obstruction, the controller stops the door.
ASD system is connected to the OE VSS device. The door operates only at speed of less than 5 km/h.

Emergency facility

The system has inside and outside (optional) emergency releasing handle.
Operating one of them will result in disconnecting the ASD mechanism device and the door will function manually immediately.

Please note:
The system performs automatic reset after the ASD has been disconnected from the power either when replacing the fuse or by disconnecting the Battery.
The system resets itself within two minutes. Please be patient.

ASD: Basic Troubleshooting

1. Door does not function.
   - Check main fuse.
   - Check connections of power terminals to the control unit, motor and operating switch.
   - Check Control units AK-105L
   - Check motor.

2. Door does not operate upon commencing the closing mode or when reaching the fully closed positions it reverses.
   - Check the safety pneumatic pressure tube; disconnect the plugs of pressure switch and close the door.
   - If the issue is not solved, try to regulate the sensitivity of the pressure switch.
   - Check safety switch.
   - Reset the system by extracting the fuse and returning it to its place.
   - Check control unit – AK105.

3. Door does not close completely.
   - Check voltage of battery, if low, start the engine.

4. Door does not open, although the electrical motor is engaged.
   - Check position of the locker unit, which annuls the OEM locking system of the door.

5. Door does not automatically reverse when encountering an obstruction during the closing mode.
   - Check safety pneumatic switch.
   - Check pressure tube & switch.
   - Check control unit.

6. Noise from the door's chain during opening and or closing modes.
   - Check installation and alignment of all wheel supports, front and rear, as well as the gear motor support.
   - Very loose chain may also jump over and cause damage to the sprocket's main motor.
   - Check chain tension and if needed shorten it by removing one or two " links".

7. Remote control unit does not function.
   - Check connection of power terminals.
   - Check battery of the key unit transmitter.

   It issue still persist replace remote control receiver with two transmitters

8. If equipped with VSS, the door operates although the vehicle is in motion over 5Km/h.
   - Check connections to the VSS unit.
   - Check VSS unit.

9. Buzzer does not operate during the closing mode.
   - Check buzzer or replace it.

Please note:

The system performs automatic reset after the ASD has been disconnected from the power either when replacing the fuse or by disconnecting the Battery.
The system resets itself within two minutes. Please be patient.